

Annual Update

Gary Sanitary District

Consent Decree NO. 2:16CV512-PPS

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Combined Sewer Overflow Operational Plan

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- Appendix 10. USEPA and IDEM Comments on GSD's CSOOP, 7/26/2018 and Subsequent Follow Up Questions Dated 11/19/2018

Section 1 – Introduction

1.1 Introduction

The Gary Sanitary District (GSD) has prepared and is submitting this Combined Sewer Overflow Operational Plan (CSOOP) Annual Update to the United States Environmental Protection Agency (USEPA) and the Indiana Department of Environmental Management (IDEM) in accordance with the provisions contained in Section VIII, Paragraph 15 of the Consent Decree No. 2:16CV512-PPS and Section III of Attachment I of the 2017 NPDES Permit No. IN 0022977.

Part a. of Paragraph 15 of the Consent Decree states the following: "No later than 60 Days after the Effective Date, Defendants shall submit to Plaintiffs for review and approval a revised version of the CSOOP that was initially approved by IDEM in 1994. The revised CSOOP shall comply with Section III of Attachment A to the 2012 NPDES Permit and shall include the items identified in Appendix 1 to this Decree that are organized under the following chapters: (1) Document History and Summary of Changes, Revisions and/or Modifications; (2) System Inventory; (3) Administrative Structure; (4) Operation and Maintenance; (5) CSO Operational Control Strategy; and (6) Schedule of Future Activities."

Part b. of Paragraph 15 of the Consent Decree states the following: "By January 31 of each year following the year of submission of the revised CSOOP pursuant to Paragraph 15.a of this Decree, Defendants shall submit to Plaintiffs for Plaintiffs' approval any updates, modifications, and/or revisions of the CSOOP..."

On November 28, 2013 GSD completed a draft version of the CSOOP. IDEM reviewed and commented on the draft 2013 version. GSD incorporated responses to IDEM comments and submitted the revised CSOOP in accordance with the Consent Decree on 5/18/2018 (60 days after the effective date of the Consent Decree). USEPA submitted comments to GSD on the CSOOP submittal on 7/26/2018 to which GSD responded on 8/23/2018. Subsequently, USEPA provided follow up questions on 11/19/2018. This CSOOP Annual Update incorporates responses to these comments and follow up questions. **Appendix 9** presents the response to the comments received in 2018, and **Appendix 10** presents the comments themselves.

1.2 Historical Activities

GSD maintains an up-to-date CSOOP. **Table 1-1** summarizes the submittals made by GSD to comply with various Federal and State of Indiana Combined Sewer System Controls and requirements:

Table 1-1. Historical Activities Time Line

Activity	Date
Submitted original Combined Sewer Overflow Operational Plan to IDEM	August 1992
Received IDEMs approval of the CSOOP	April 1994
Submitted a revision to the CSOOP to IDEM	June 1998
Received IDEMs approval of the revised CSOOP	August 1998
Submitted a revision to the CSOOP to IDEM	November 2013
Submitted Revised Version of the CSOOP to IDEM and USEPA in accordance with the 3/19/2018 Consent Decree	May 18, 2018
Submitted Annual Update of the CSOOP to IDEM and USEPA in accordance with the 3/19/2018 Consent Decree	January 1, 2019

1.3 Scope

The intent of the CSOOP is to provide GSD with mechanisms and specific procedures to ensure that the nine-minimum technology-based controls for combined sewer overflows (CSOs) are followed and activities are properly documented. The nine minimum controls include:

- Proper operation and regular maintenance
- Maximum use of the collection system for storage
- Review and modifications of pretreatment programs
- Maximization of flow to the POTW for treatment
- Prohibition of CSO discharges during dry weather;
- Control of solid and floatable materials in CSO discharges
- Pollution prevention programs
- Public notification to ensure that the public receives adequate notification of CSO occurrences and CSO impacts
- Monitoring to effectively characterize CSO impacts, and the efficacy of CSO controls

1.4 Operational Plan

This CSOOP is divided into the following sections:

- Section 1 Introduction
- Section 2 System Inventory
- Section 3 Administrative Aspects
- Section 4 Maintenance
- Section 5 Control Strategy
- Section 6 Schedule of Future Activities

Figures, Tables, and Appendices are provided for supplemental information.

1.5 Combined Sewer System

Combined sewer systems are sewers that are designed to collect rainwater runoff, domestic sewage, and industrial wastewater in the same pipe. Most of the time, combined sewer systems transport all collected wastewater to a sewage treatment plant, where it is treated and then discharged to a water body. During periods of heavy rainfall or snowmelt, however, the wastewater volume in a combined sewer system can exceed the capacity of the sewer system or treatment plant. For this reason, combined sewer systems are designed to overflow occasionally at strategic locations (CSOs) and discharge excess wastewater directly into receiving waters.

1.6 Problems Associated with Combined Sewer Systems

The discharge at these CSOs contains storm water, untreated human, commercial, and/or industrial waste; potentially toxic materials; and debris.

1.7 Combined Sewer Controls

Technologies exist to control pollution from CSOs and storm water runoff. These technologies can be grouped into the following three main categories:

- SOURCE CONTROLS: Source controls include those measures for reducing pollution from CSOs and storm water that involve actions within the upstream urban drainage basin before the urban water reaches the sewer system, affecting the volume and quality of the polluted discharge.
- 2. COLLECTION SYSTEM CONTROLS: Collection system controls are intended to ensure that the combined sewer system operates as efficiently as possible and that maximum advantage is taken of opportunities to reduce CSOs.
- 3. TREATMENT CONTROLS: Treatment controls are technologies that remove pollutants from combined sewer overflows.

Table 1-2 summarizes how the nine-minimum technology-based controls and three main pollution control categories interrelate.

	Pollution Control Categories		
Nine Minimum Technology-Based Controls	Source Control	Collection System Control	Treatment Control
Proper operation and maintenance of collection system		Х	
Maximum use of collection system for storage	Х	Х	
Review and modification of pretreatment programs		Х	

Table 1-2. Nine Minimum Controls

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	Pollutio	Pollution Control Categories			
Nine Minimum Technology-Based Controls	Source Control	Collection System Control	Treatment Control		
Maximization of flow to POTW for treatment		Χ	Х		
Prohibition of CSO discharges during dry weather		Χ	Х		
Control of solid and floatable materials in CSO		Χ	X		
Pollution prevention programs	Χ				
Public notification to ensure that public receives adequate notification of CSO occurrences and CSO impacts	Х				
Monitoring to effectively characterize CSO impacts, and efficacy of CSO controls		Х	Х		

Section 2 - System Inventory

2.1 Service Area

The City of Gary, Indiana is located in northeast Lake County, Indiana, and is generally bounded on the north by Lake Michigan, on the east by Cline Avenue, on the south by 53rd Avenue and on the west by Lake-Porter County Line Road. **Figure 2-1** shows the general boundaries of the geographical service area. GSD's collection system collects flows from the City of Gary, as well as the City of Hobart, Indiana, the City of Lake Station, Indiana, and the Merrillville Conservancy District in Indiana.

2.1.1 Population Served by the WWTP

In 2018, GSD serviced a total population of 151,618 people with 60,425 total households. This population consists of 76,424 people from the City of Gary with 31,205 households, 34,994 people from the Town of Merrillville with 13,513 households, 28,248 people from the City of Hobart with 11,512 households, and 11,952 people from the City of Lake Station with 4,195 households.

2.1.2 Service Connections

As stated above GSD provides service to 151,618 residents. GSD also services 1,775 commercial properties as of 2018, and 27 Industrial Users.

2.1.3 Industrial Users

GSD provides service to a total of 27 Industrial Users, of which 14 are Significant Industrial Users, and none are Categorical Industrial Users. **Table 2-1** presents a list of the industrial users. **Figure 2-3** shows the locations of the SIUs in proximity to GSD's permitted CSO outfalls.

Table 2-1. List of Industrial Users

IU Number	Name of Industry	Address of Industry	Contact Information	Classification of Industry
1	Beaver Oil Company	1040 Michigan St. Gary, IN 46402	(219) 881-9234	Significant Industrial User
2	Buffington Harbor Casino Resort	1 Buffington Harbor Dr. Gary, IN 46406	(219) 977-7777	Significant Industrial User
3	Chase Street Partners	700 Chase St. Gary, IN 46404	(312) 933-3298	
4	Chicago Steel	700 Chase St. #1 Gary, IN 46404	(219) 949-1111	Significant Industrial User
5	Elgin, Joliet & Eastern Railroad	1 North Buchanan St. Gary, IN 464602	(708) 332-3087	

IU Number	Name of Industry	Address of Industry	Contact Information	Classification of Industry
6	Loves Travel Center	3150 Grant Street Gary, IN 46408	(219) 981-4640	Significant Industrial User
7	Gary Chicago Airport	6001 Airport Road Gary, IN 46406	(219) 949-9722	
8	Gary Public Transportation Corporation	2101 W. 35 th Avenue Gary, IN 46408	(219) 884-6100	
9	Gary Sanitary Landfill	839 Broadway Gary, IN 46402	(219) 949-9722	Significant Industrial User
10	Welsh	201 Mississippi Street Gary, IN 46406	(219) 883-4129	
11	Golars	4500 Broadway Gary, IN 46408	(317) 500-0000	
12	Golars	2301 E. 15 th Avenue Gary, IN 46408	(317) 500-0000	
13	Indiana-American Water Company	650 Madison Street Gary, IN 46402	(800) 492-8373	Significant Industrial User
14	Indiana Industrial Investments	76 North Bridge Street Gary, IN 46406	(219) 881-2765	
15	Lake Shore Trucking	2250 E. 15 th Avenue Gary, IN 46402	(219) 882-0105	Significant Industrial User
16	Methodist Hospital - Northlake	600 Grant Street Gary, IN 46402	(219) 886-4000	Significant Industrial User
17	Monosol	1701 County Line Road Portage, IN 46368	(219) 762-3165	Significant Industrial User
18	NIPSCO Construction	2800 E. 15 th Avenue Gary, IN 46402	(574) 876-6040	
19	NIPSCO Meter Repair Shop	3511 E. 15 th Avenue Gary, IN 46402	(219) 292-1626	
20	NIPSCO Operations	1460 E. 15 th Avenue Gary, IN 46402	(219) 246-8713	
21	NIPSCO Transportation	2800 E. 15 th Avenue Gary, IN 46402	(219) 238-3284	
22	Petro #369	3001 Grant Street Gary, IN 46408	(440) 808-7368	Significant Industrial User

IU Number	Name of Industry	Address of Industry	Contact Information	Classification of Industry
23	Schneider National Trucking	7101 W. 17 th Avenue Gary, IN 46406	(219)9 44-0096	Significant Industrial User
24	Stericycle	1310 Michigan Street Gary, IN 46402	(219) 886-3628	Significant Industrial User
25	Travel Centers of America	2510 Burr Street Gary, IN 46406	(219) 845-3721	Significant Industrial User
26	Tri-State Coach Lines	2101 W. 37 th Avenue Gary, IN 46408	(219) 884-0054	
27	USS Corporation	1 North Broadway Gary, IN 46402	(219) 888-3369	Significant Industrial User

2.1.4 Satellite Communities

GSD has agreements to provide wastewater treatment to three satellite communities. These communities are the City of Hobart, the City of Lake Station, and the Merrillville Conservancy District. These agreements can be found in **Appendix 2**. The sewers in these communities are separate sanitary. As per these agreements, GSD has agreed to treat a flow of 4.18 MGD from Hobart, 2.0 MGD from Lake Station, and 8.4 MGD from the Merrillville Conservancy District.

The connections of these satellite communities to the GSD system is shown in Figure 2-1.

2.2 Sewer System (Combined, Sanitary, and Storm)

The existing sewer system is currently composed of approximately 399 miles of sewers (not including satellite community sewer systems). The system's interceptor sewers (36 inches in diameter or larger) comprise approximately 52 miles. The area consists of four distinct basins within GSD's system (within the City of Gary Limits). These four basins are the Miller/Aetna Area, the South Area, the Central Area, and the West Area. Each area exhibits the same soils type, primarily sand. **Figure 2-2** presents the locations of the collection system components.

2.2.1 Age, Length, Materials, Sizes, and Depths of Sewers

The oldest sewers in the City of Gary are over 100 years old. The average age of the sewers in Gary is approximately 84 years old. Sewers in Gary are made of vitrified clay, concrete, reinforced concrete, brick, and PVC. Sewers in Gary are between 6 and 20 feet deep, with an average depth of approximately 9 feet. **Table 2-2** shows the various pipe sizes and corresponding length in Gary.

Table 2-2. Pipes Sizes and Lengths

Sewer Size	Length of Sewer in Feet				
8-inch	177,695				
10-inch	160,153				
12-inch	810,959				
15-inch	246,726				
18-inch	127,453				
20-inch	15,547				
21-inch	40,052				
24-inch	91,534				
27-inch	10,328				
30-inch	61,171				
33-inch	3,694				
36-inch	57,139				
42-inch	44,339				
48-inch	49,161				
54-inch	39,692				
60-inch	31,126				
66-inch	17,643				
72-inch	39,351				
78-inch	6,065				
84-inch	22,501				
90-inch	1,342				
96-inch	5,970				
108-inch	5,563				
5'x9' Box Sewer	2,844				
86-inch x 106-inch Box Sewer	3,165				
4'x5' Box Sewer	14,802				
4-inch Force Main	3,730				
6-inch Force Main	5,622				
8-inch Force Main	2,755				
10-inch Force Main	1,159				
12-inch Force Main	7,025				
30-inch Force Main	4,075				
42-inch Force Main	385				

2.2.2 Physical Condition of the Pipes

GSD's sewer system is approximately 100 years old, with several sewers reaching their useful life. Many of the pipes have cracks, large amounts of infiltration and inflow, and roots. Because of the age of the pipes, cave-ins occur, and repairs are made every year

2.2.3 Collection System and Service Area – Problem Areas

With such an aging infrastructure, GSD has several problem areas throughout its collection system. A sewer cleaning and televising project was completed between 2003 and 2007, which provided a comprehensive look at the larger pipes within GSD's collection system. All pipes greater than 18-inches in diameter were cleaned and televised during this project (approximately 520,000 linear feet). The videos were reviewed to perform a condition assessment on the pipes, assigning each segment a code based on severity of deterioration. That assessment resulted in the determination that 9% of the larger diameter pipes that were televised have already failed or are projected to fail within the next five to ten years, at the time of the study. GSD has already corrected the most severely deteriorated pipes, approximately 25% of those identified, and continues to make progress on rehabilitation.

Furthermore, GSD currently has started to develop a sewer asset management program, which includes an evaluation of GSD's current inspection equipment, working with vendors for possible purchase of new equipment, development of a data gathering strategy, development of in-field data collection applications, and an evaluation of facilitating information exchange with other existing software in GSD's system. That project is underway and is scheduled for completion Spring 2019

2.2.4 Sewer Collection System Maps

Figure 2-2 shows the location of the permitted CSO outfalls, CSO regulators, pump stations, interceptors, and locations where the satellite Communities join GSD's collection system.

2.2.5 Pump Stations (Combined, Sanitary, Storm)

There are 27 lift stations owned and operated by GSD. All pump stations discharge to a forcemain which then eventually discharges to a gravity main. **Table 2-3** provides a list of existing pump stations, locations, capacity, and to which trunk sewer the pump station ultimately discharges. Standard Operating Procedures (SOPs) for the pump stations are presented in **Appendix 5-1**.

Table 2-3. Pump Stations

#	Station Name	Address	Latitude	Longitude	Number of Pumps and Size	Pump Type	Firm Capacity (GPM)	Total Capacity (GPM)
Com	bined							
1	27 th & Chase (New)	2719 Chase Street	41.5689	87.3748	4 Pumps @ 15,000 GPM	VFD	45,000	60,000
2	35th & Washington	3521 Washington Street	41.5543	87.3373	n/a	(converted to	gravity)	
3	54 th & Tyler (New)	1010 W. 54 th Avenue	41.5208	87.3484	3 Pumps @ 800 GPM	Constant Speed	1,600	2,400
4	54 th & Tyler (Old)	1010 W. 54 th Avenue	41.5208	87.3484	2 Pumps @ 1,700 GPM	Constant Speed	1,700	3,400
5	15 th & Clay	4600 E. 15 th Place	41.5684	87.2806	4 Pumps @ 6,600 GPM	Constant Speed	19,800	26,400
6	Forrest	8245 Forrest Avenue	41.6144	87.2355	2 Pumps @ 1,500 GPM	Constant Speed	1,500	3,000
7	Sunrise (Spencer Street)	5 th Ave and Spencer Street	41.6009	87.2359	3 Pumps @ 282 GPM	Constant Speed	564	846
8	Anderson (Blaine)	333 Blaine Street	41.6072	87.4243	2 Pumps @ 50 GPM	Constant Speed	50	100
Sani	tary							
9	Hobart Street	460-464 Hobart Street	41.6024	87.4172	2 Pumps @ 100 GPM	Constant Speed	100	200
10	25 th & Calhoun	5713 West 25 th Avenue	41.5736	87.4058	3 Pumps @ 1,800 GPM	Constant Speed	3,600	5,400
11	25 th & Bell	6902 West 25 th Avenue	41.5736	87.4216	2 Pumps @ 400 GPM	Constant Speed	400	800
12	27 th & Calhoun	2731 Calhoun Street	41.5695	87.4074	3 Pumps @ 800 GPM	Constant Speed	1,600	2,400
13	33 rd & Burr	33 rd and Burr Street	41.5613	87.4038	2 Pumps @ 500 GPM	Constant Speed	500	1,000
14	Marshalltown	2387 Wisconsin Street	41.576	87.3058	3 Pumps @ 500 GPM	Constant Speed	1,000	1,500
15	Marquette Sanitary	800 Montgomery Street	41.6176	87.2517	1 Pump @ 250 GPM 1 Pump @ 500 GPM 1 Pump @ 750 GPM	Constant Speed	750	1,500
16	Marquette Beach	7190 Oak Avenue	41.6206	87.252	2 Pumps @ 80 GPM	Constant Speed	80	160
17	Lakeshore Drive East	9400 Lakeshore Dr.	41.6227	87.2303	2 Pumps @ 500 GPM	Constant Speed	500	1,000
18	Lakeshore Drive West	8900 Lakeshore Dr.	41.6235	87.224	2 Pumps @ 500 GPM	Constant Speed	500	1,000
19	US20 & Hwy 51	US20 & Route 51	41.5954	87.2402	2 Pumps @ 282 GPM	Constant Speed	282	564
20	Lake Street	860 N. Lake Street	41.618	87.2689	2 Pumps @ 282 GPM	Constant Speed	282	564
21	Airport	6001 Airport Road	41.6116	87.3964	2 Pumps @ 1,800 GPM	Constant Speed	1,800	3,600

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#	Station Name	Address	Latitude	Longitude	Number of Pumps and Size	Pump Type	Firm Capacity (GPM)	Total Capacity (GPM)
Stor	m							
22	34 th & Burr	34 th Ave & Burr Street	41.5608	87.4021	4 Pumps @ 14,588 GPM	Constant Speed	43,764	58,352
23	32 nd & Grant	32 nd Ave & Lincoln Street	41.5601	87.3554	2 Pumps @ 282 GPM	Constant Speed	282	564
24	42 nd & Johnson	4229 Johnson Street	41.5417	87.3542	4 Pumps @ 33,000 GPM	Constant Speed	99,000	132,000
25	48 th & Carolina	4818 Carolina Street	41.5311	87.3285		n/a (abandor	ned)	
26	2 nd & Tennessee	100 Tennessee Street	41.5744	87.3226	3 Pumps @ 500 GPM	Constant Speed	1,000	1,500
27	Marquette Storm	800 Montgomery Street	41.6176	87.2518	4 Pumps @ 18,000 GPM	Constant Speed	54,000	72,000
28	15 th & Fulton	7107 W. 15 th Avenue	41.586	87.4044	2 Pump @ 400 GPM	Constant Speed	400	800
29	Connecticut Street	33 rd Avenue & Connecticut Street	41.55867	87.3333	3 Pump @ 8,000 GPM	Constant Speed	16,000	24,000

2.2.6 CSO Outfalls

GSD's collection system has twelve NPDES permitted CSO outfalls. The CSOs are designed to provide points of hydraulic relief to the combined sewer system to prevent flooding within the collection system and potential long-term facility damage during major power outages, planned shutdowns, equipment failure, and high flow events due to wet weather. **Table 2-4** provides a list of the CSOs, locations, and configurations, grouped by receiving water body. **Figure 2-3** shows the locations of these outfalls along with proximity to SIUs.

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Combined Sewer Overflow Operational Plan

Table 2-4. CSO Outfalls

			,	Weir (ft)		0 :5	D: 147 :		
NPDES Outfall Number	Outfall Location	Length (ft)	Offset (ft) ⁽¹⁾	Pre-2008 Elevation (ft)	Post-2008 Elevation (ft)	Orifice Size (ft)	River Weir Elevation (ft)	Gate Operation	Note
	West Branch Litt	tle Calum	et River						
004	15 th Avenue and Elkhart Street	6.3	3.05	586.0	No Change	4x4	Flap Gate	No	
005	32 nd Avenue and Broadway West	12	2.4	596.4	No Change	None	None	No	
013	25 th Avenue and Louisiana Street	16	3.58	590.6	No Change	None	None	No	
015	32 nd Broadway and Alley 1 East	15	4.8	596.5	No Change	None	None	No	Concrete weir at 591.5 ft ⁽²⁾
	East Branch Gra	nd Calum	et River						
006	Rhode Island at East Interceptor	9	4.5	580.9	No Change	4x4	588.1	Yes	Concrete river weir at 585.2 ft ⁽²⁾
007	Alley 9 at East Interceptor	16	3	581.9	No Change	5x3	589.5	Yes	Concrete river weir at 586.7 ft ⁽²⁾
008	Polk Street at East Interceptor	5	2.2	585.1	No Change	1x1	585.5	Yes	
009	Pierce Street at East Interceptor	4x6 Gates	1.19	580.1	No Change	4x4	585.5	Yes	First weir is 3 flap gates each 4 ft x 6 ft
010	Bridge Street at East Interceptor	15	7.1	584.6	585.71	3x3	None	Yes	Concrete weir at 582.9 ft ⁽²⁾
011	Chase Street at East Interceptor	13	1.5	578.1	586.1	7x3	586.17	Yes	Concrete river weir at 583.67 ft ⁽²⁾
012	Colfax Street at West Interceptor	13.6	6.95	583.6	585.35	3x3	583.8	Yes	Concrete weir at 583.08 ft ⁽²⁾ Broken area of river weir low at 582.9 ft ⁽²⁾

Notes:

2.2.7 Rain Gauges

GSD has seven rain gauges throughout its collection system. All seven rain gauges are tipping bucket type and are located near the following pump stations / regulators:

- 27th and Chase Street Pump Station
- 42nd and Johnson Storm Water Pump Station
- 15th and Clay Pump Station

⁽¹⁾ Weir offset refers to the local height of the weir relative to the invert of the regulator structure.

⁽²⁾ Several weir structures include in their weir elevation iron stop logs. For these locations the top elevation of the "concrete weir" on which the stop logs are stacked is provided.

⁽³⁾ CSO 014 - 25th Avenue and Wisconsin Street - is filled with concrete and not included in the table. It is located upstream of a pump station in Gary's Marshal Town subdivision. During an Army Corp levee project, the levee raised the water level to the point where water was backflowing into CSO 014 and flooding the upstream neighborhood. To prevent that from happening, GSD closed the CSO with concrete. However, GSD does not want to remove the CSO from its NDPES permit because that would require significant cost, effort, and coordination with the Army Corps. Additionally, GSD would like to retain CSO 014 as a permitted CSO outfall in case of emergency.

- 2nd and Chase Street Regulator
- 2nd and Colfax Regulator
- Polk Street Regulator
- Rhode Island Regulator

2.3 Wastewater Treatment Plant

2.3.1 Current WWTP Process Flow Diagram

GSD's WWTP consists of the following facilities and infrastructure:

- Headworks (screening, grit removal and pumping)
- Primary Clarifiers
- Secondary Treatment Process
 - Bioreactor Trains
 - o Secondary Clarifiers
- Tertiary Filtration
- Disinfection
- Yard Piping and Conduits
- Solids Handling System

Plant influent passes first through the headworks that consists of a single trash rack followed by four (4) mechanical screening and grit removal. From grit removal consisting of two detritus tanks with supporting grit dewatering units, the wastewater is pumped to the primary clarifiers for removal of settable solids and particulate biochemical oxygen demand (BOD). Primary sludge is pumped to a de-gritter then gravity thickened prior to stabilization via anaerobic digestion. Primary effluent is distributed to six bioreactor trains operated in an anaerobic-oxic (A/O) configuration for enhanced biological phosphorus removal and nitrification. Mixed liquor from the aeration tanks is distributed to the secondary clarifiers. Secondary effluent is pumped to deep bed sand filters for tertiary filtration. Once filtered, the effluent is seasonally chlorinated and dechlorinated with sodium hypochlorite and sodium bisulfite, respectively. Return activated sludge is returned to the head of the aeration tanks. Waste activated sludge (WAS) is thickened via a gravity belt thickener prior to digestion. Thickened WAS and primary solids are mixed prior to digestion. Digested sludge is then dewatered by belt filter press prior to ultimate disposal by landfilling.

A flow schematic showing flow distribution and major unit processes is shown in Figures 2-4a and 2-4b.

2.3.2 Detailed Description of Unit Operation, Process and Major Pieces of Equipment Employed at the WWTP

Table 2-5 shows the maximum peak treatable flow for each WWTP unit process. The WWTP staff have shown that they are able to treat flow higher than design firm capacity of particular

units without degrading plant effluent quality; however, operating in this mode does have longer term implications, for example, more frequency equipment maintenance requirements. Currently, the tertiary filers are bypassed during flows above 130 MGD (firm capacity of tertiary pumps). The flow bypassed around the tertiary filter is blended with the tertiary effluent and has consistently met permit requirements under recent flow and loading conditions. If higher flows (i.e. above 142 MGD maximum day) are to be treated, the efficacy of continuing to bypass the tertiary process at flows above 130 MGD needs to be examined. Ultimately with more pumping capacity the tertiary filtration system could handle flows up to 160 MGD (firm capacity).

Table 2-5 Maximum Peak Treatable Flows of Each WWTP Unit Process

Unit Process	Current Maximum Peak Treatable Flow	Number of Units	Basis
Trash Rack	142 MGD	1 Duty	WEF MOP 8 recommends velocity of 3 ft/sec at maximum flows, which would rate the screen at a 100 MGD firm capacity; however, based on system performance flows up to 142 MGD are acceptable.
Fine Screens	142 MGD	3 Duty (1 Standby)	Based on a WEF MOP 8 the recommended approach velocity of 3 ft/sec rates the firm capacity at 133 MGD with one unit out of service. The plant has stressed these screens up to 142 MGD without degrading performance.
Grit Tanks	150 MGD	2 Duty	Standard Design for detritus tanks (grit tanks) as detailed in Metcalf and Eddy (1999) is based on grit removal of at least 95% removal of 100 mesh grit. With this design condition the grit tanks are rated for a firm capacity of 104 MGD. At a peak hour flow of 150 MGD, the system is expected to removal 95% of grit greater than 70 mesh, which is acceptable for a maximum day condition. The system has only been stressed up to 142 MGD.
Influent Pumps	150 MGD	5 Duty (2 Standby)	The influent pumps firm capacity of 150 assumes that each wet well has a redundant (standby) pump. Potentially the option to reduce the number of standby pumps could be explored in the future, but due to the current limitations of the secondary treatment process 142 MGD should be considered the maximum day peak treatable flow for the GSD WWTP based on raw influent flow.
Primary Clarifiers	150 MGD	8 Duty Squircle 2 Duty Rectangular	Based on a Ten States Standards peak surface overflow rate (SOR) of 2,000 gpd/sf, achieved at an influent flow of 150 MGD. Although retrofitted (i.e. clarifier baffles) could maintain adequate performance of the clarifiers at higher flows,

Unit Process	Current Maximum Peak Treatable Flow	Number of Units	Basis
			further discussions regarding surpassing Ten States Standards are required.
Bioreactors (Aeration Tanks)	142 MGD	2 Duty – 4 Pass 4 Duty – 3 Pass 20 MG (Total)	Based on the current loading rates and required level of treatment the current volume is adequate when operated at a minimum SRT of 12 days and MLSS of 3,800 mg/L. Capacity of a secondary treatment process is highly dependent on influent conditions, operational flexibility and treatment process configuration. The maximum peak treatable flow is determined by the secondary clarifier capacity.
Secondary Clarifiers	142 MGD	16 Duty Squircle 8 Duty Circular	Based on solids flux using a state point analysis with the current operating conditions (i.e. MLSS concentration of 3,800 mg/L and SVI of 125 mL/g) the current maximum day secondary clarifier capacity is 142 MGD (based on raw influent flow). State point is the recommended method to determine secondary clarifier capacity and well documented in WEF MOP 8. Using this analysis, a maximum peak treatable flow rating is developed for the maximum day condition.
Filter Influent Pumps	130 MGD	4 Duty (1 Standby)	Currently the filter system is still in a start-up mode with three pumps online. Once fully operational the expected capacity with 4 duty pumps is 130 MGD for the pumping system. (Note: due to filter modifications necessary during mid-construction the weir elevations are not consistent with the original filter design and may decrease the capacity of the screw pumps that is hydraulically possible). With 9 filters in service the maximum pumping capacity correlates to hydraulic loading rate of 4.7 gpm/sqft.
Effluent Filters	160 MGD	9 Duty (1 Standby)	WEF MOP 8 states that typical sand filtration should have a maximum hydraulic loading rate of 6.0 gpm/sqft, which is achieved at 160 MGD at the GSD WWTP with 9 filters in service. It should be noted that currently the pumping system is unable to deliver 160 MGD to the filters.
Chlorine Contact Tanks	224 MGD	5 Duty	WEF MOP 11 and Ten States Standards require states peak flow chlorine contact basin detention time should be at minimum 15 minutes during peak flows, which is achieved at 224 MGD at the GSD WWTP.

2.3.3 Monitoring Protocol

All permitted CSOs are monitored via telemetry. When there is a CSO event, the time, duration, and volume of sewage that overflowed is recorded and is reported by GSD in its monthly report to IDEM. Actual plant influent flow is calculated with the sum of three magnetic flow meters which each feed a bank of Primary Clarifiers. Two of the mag meters are 48-inches in diameter, while the third is 54-inches in diameter. Sampling requirements and frequency for the treatment plant are found in Table 2-8. Table 2-8 also contains NPDES Permit limits for the plant's effluent.

2.3.3.1 Data

Samples for GSD's WWTP outfall are taken on a routine basis. E. Coli and chlorine residual samples are taking from April 1st through October 31st from the plants effluent. There is a dissolved oxygen meter near the outfall and is used for the operation of the treatment plant. All samples are held and preserved in accordance with 40 CFR Part 136.

2.3.3.2 Observation and Reporting Adverse Effects

All data collected from the treatment plant's outfall are reported to the Indiana Department of Environmental Management on a monthly basis. All data within Table 4 meet acute water quality criteria for protection of Aquatic Life.

2.3.4 Treatment Plant Flows

The wastewater treatment plant flow averages from 2000 to 201/ are in Table 2-6. The treatment plant has an average daily design flow of 60 MGD and a peak hourly design flow of 120 MGD. The wastewater treatment plants secondary treatment process was last updated in 2002 with improvements to the Aeration Basins, which converted the treatment plant from a two-stage activated sludge plant to a single-stage activated sludge plant. In 2018 start-up and commissioning of an improved deep bed sand filter was completed for tertiary treatment. The wastewater treatment plant performance continues to meet its NPDES permit on average. The plant facilities were explained in Section 2.3.2.

Table 2-5. Average Daily Flow

Year	Average Annual Daily Flow (MGD)
2010	45.3
2011	49.6
2012	40.3
2013	46.8
2014	52.8
2015	47.0

Year	Average Annual Daily Flow (MGD)
2016	49.9
2017	48.2
2018	44.9

In recent years, GSD has made efforts to bring more equipment on-line to treat greater peak wet weather flows at the WWTP. Since 2010 the Peak Flow of the WWTP has increased from 105.6 MGD to 142.3 MGD in 2018 while peak instantaneous flow rates have increased from 126.8 MGD in 2010 to as high as 158.9 MGD in 2016. This is presented in Table 2-7.

Table 2-6. Peak Flow Rates

Year	Peak Daily Flow (MGD)	Peak Instantaneous Flow (MGD)
2010	105.6	126.8
2011	108.0	144.0
2012	104.5	140.2
2013	114.1	150.2
2014	125.1	152.1
2015	125.0	149.8
2016	110.6	158.9
2017	121.1	154.0
2018	142.3	152.5

2.4 Groundwater Levels

The groundwater table varies from north to south in the collection system. Generally, land north of Ridge Road is sandy with low groundwater tables, while areas south of Ridge Road tend to be more clay with a high groundwater table. However, there are several wetland areas in various locations near the Little Calumet and Grand Calumet areas. These areas also have high groundwater tables.

2.5 Quality of Receiving Waters

Both the Little Calumet River and the Grand Calumet River are listed on the IDEM's 303(d) list as impaired bodies of water. The Little Calumet River has a seven-day, ten-year low flow (Q7,10) of 182 cfs (117.6 MGD), while the Grand Calumet River has a seven-day, ten-year low flow of 352 cfs (227.5 MGD). Both rivers are in the Lake Michigan drainage basin and are therefore subject to the Indiana Water Quality Standards applicable to all water of the State within the Great Lakes System in accordance with 327 IAC 2-1.5.

The wastewater treatment plant outfall to the Grand Calumet River is approximately 5 miles from the Indiana Harbor Ship Canal, which empties into Lake Michigan. The Indiana portion of the open waters of Lake Michigan is designated as outstanding state resource water in accordance with 327 IAC 3-1.5-19(b). Discharge to tributaries of outstanding state resource waters is subject to anti-degradation implementation procedures for outstanding state resource waters.

The Little Calumet River has the following designated uses (327 IAC 2-1.5-5).

- Full-body contact recreation
- Capable of supporting a well-balanced, warm water aquatic community
- Salmonid waters (capable of supporting a salmonid fishery) for Burns Ditch downstream of the confluence with the East Branch of the Little Calumet River

The Grand Calumet River has the following designated uses (327 IAC 2-1.5-5).

- Full-body contact recreation
- Capable of supporting a well-balanced, warm water aquatic community

Under IDEM's 2016 303(d) list the following impairments are listed

- For the portion of the Little Calumet River east of Grant Street in Gary, Indiana:
 - o E. coli (Category 4A),
 - o PCBs (Category 5B),
 - o impaired biotic communities (Categories 4A/4C),
 - o dissolved oxygen (Category 4A).
- One CSO discharges to the Little Calumet River west of Grant Street. The following impairments are listed for this river segment:
 - o E. coli (Category 4A),
 - o PCBs (Category 5B),
 - o impaired biotic communities (Category 5A),
 - o dissolved oxygen (Category 5A),
 - o free cyanide (Category 5A),
 - o nutrients (Category 5A), and
 - o chloride (Category 5A).
- The following impairments are listed for the Grand Calumet River for segments between GSD's CSOs and the Indiana Harbor Ship Canal:
 - o PCBs (Category 5B),
 - o ammonia (Category 5A),
 - o impaired biotic communities (Category 5A),
 - o oil and grease (Category 5A),

IDEM submitted the 2018 Integrated Report to USEPA on August 17, 2018. The 2018 Consolidated List (Categories 1-5) is currently unavailable. When this list is released the information on impairments to the river segments above will be updated

2.6 Effluent Standards

The current NPDES permit (**Appendix 1**) contains effluent limitations and monitoring requirements for the wastewater treatment plant, Outfall 001A and 001B, in Part 1, A. **Table 2-8** lists the parameters and effluent limitations as specified in the NDPES permit.

Table 2-7. NPDES Permitted Effluent Limits (Effective July 1, 2017)

-					•		3 July 1, 2017		
	Quantity or Loading			Quality	or Concentra	ation	Monitoring Requirements		
Parameter	Monthly Average	Weekly Average	Units	Monthly Average	Weekly Average	Units	Measurement Frequency	Sample Type	
Flow	Report		MGD				Daily	24-hour Total	
CBOD									
Summer	5,007	7,511	lbs/day	5.0	7.5	mg/l	Daily	24-hour Composite	
Winter	8,812	13,218	lbs/day	8.8	13.2	mg/l	Daily	24-hour Composite	
TSS									
Summer	6,008	9,013	lbs/day	6.0	9.0	mg/l	Daily	24-hour Composite	
Winter	9,613	14,420	lbs/day	9.6	14.4	mg/l	Daily	24-hour Composite	
Phosphorus			lbs/day	1.0		mg/l	Daily	24-hour Composite	
рН	6.0		9.0	s.u.			Daily	Grab	
Dissolved Oxygen									
Summer	6.0			mg/l			Daily	12 Grabs / 24 hours	
Winter	5.0			mg/l			Daily	12 Grabs / 24 hours	
Oil & Grease		-	10	mg/l			5X Weekly	Grab	
E. Coli		125	235	cfu/100 ml			Daily	Grab	
Ammonia- Nitrogen									
Summer	1,001	2,333	lbs/day	1.00	2.33	mg/l	Daily	24-hour Composite	
Winter	1,132	2,634	lbs/day	1.13	2.63	mg/l	Daily	24-hour Composite	
Total Residual Chlorine									
Final	8	18	lbs/day	0.008	0.018	mg/l	Daily	Grab	
Whole Effluent Toxicity									
Acute					1.0	TUa	2 X Annually	24-hour Composite	
Chronic				2.0		TUc	2 X Annually	24-hour Composite	
Arsenic		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Cadmium		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	

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	Quantity or Loading			Quality	or Concentra	ation	Monitoring Requirements		
Parameter	Monthly Average	Weekly Average	Units	Monthly Average	Weekly Average	Units	Measurement Frequency	Sample Type	
Chromium		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Copper		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Cyanide		Report	lbs/day		Report	mg/l	Quarterly		
Lead		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Mercury		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
WQBELs	0.00065	0.0016	lbs/day	1.3	3.16	ng/l	6 X Annually	Grab	
SMV Interim Discharge Limit				1.8	Report	ng/l	6 X Annually	Grab	
Nickel		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Zinc		Report	lbs/day	-	Report	mg/l	Quarterly	24-hour Composite	
Phenols		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Chloride		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Sulfate		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	
Fluoride		Report	lbs/day		Report	mg/l	Quarterly	24-hour Composite	

Section 3 – Administrative Aspects

3.1 Structure and Responsibilities

GSD has a Board of Commissioners consisting of five members, appointed by the Mayor of the City of Gary, Indiana.

The senior management team consists of an Executive Director, with a Superintendent of Operations.

3.1.1 Organizational Structure

GSD's organizational structure is presented in Figure 3-1.

3.1.2 Management / Lines of Authority / Respective Responsibilities

The hierarchy of management and operations in the Operations and Maintenance of the WWTP is listed below including responsibilities.

- Plant Superintendent Oversee Operations, Maintenance, Safety, and Security
- Operations Manager Oversee Shift Supervisors, Assistance Supervisors, and Operators
- Shift Supervisor Oversee operations on their shift
- Assistant Shift Supervisor Cover Shift Supervisors
- Operators Handles day to day operations of the WWTP

As of 2018, GSD has 25 employees for the collection system, 25 in operations, and 17 in Maintenance.

3.2 Position and Duties of GSD Staff that are Responsible for Monitoring and Controlling CSOs

During an event where potential for an overflow event exists, it is the operator assigned to the Primary Clarifiers that is responsible for monitoring and controlling the CSOs via the procedure explained in the SOP Combined Sewer Overflow Minimization and Wet Weather Guidelines (**Appendix 5-2**). When a CSO event is observed via the telemetry system, the Operations Crew at the WWTP will dispatch personnel from the Pump Station Crew to visually confirm that a CSO event is happening.

3.3 NPDES Permit

GSD's current NPDES Permit (IN0022977) was provided by IDEM on June 23, 2017, and became effective on July 1, 2017. This permit was processed in accordance with Section 402 and 405 of the Federal Water Pollution Control Act as amended, (33 U.S.C. 1251, et seq.), and IDEM's permitting authority under IC 13-15.

3.4 City Ordinances

GSD updated its Sewer Use Ordinance (**Appendix 4**), which became effective on September 18, 2014. This ordinance sets uniform requirements for discharges into, the construction of, and additions to, GSD's wastewater collection and treatment system, which requirements enable GSD to protect public health, ensure a sound sewer infrastructure system, and comply with all applicable local, state and federal laws

This sewer use ordinance objectives are:

- To prevent the introduction of pollutants into GSD's wastewater treatment system that will interfere with normal operation of the wastewater treatment plant or contaminate the resulting municipal sludge, or result in GSD's violation of their ordinance, permits, orders, laws, or rules, and regulations, etc.
- To prevent the introduction of pollutants into GSD's wastewater treatment system which do not receive adequate treatment in the wastewater treatment plant, and which will pass through the plant into receiving waters or the atmosphere.
- To improve the opportunity to recycle and reclaim wastewater and sludge from the system.
- To minimize the introduction of infiltration and inflow into the wastewater collection system that will occupy capacity reserved for community growth.

Furthermore, the Gary Stormwater Management District has adopted a Storm Water Ordinance on July 3, 2006, that regulates the following:

- Discharges of prohibited non-storm water flow into the stormwater discharge system
- Stormwater drainage improvements related to the development of lands located within the City of Gary, Indiana
- Drainage control systems installed during new construction and grading of lots and other parcels of land
- Erosion and sediment control systems installed during new construction and grading of lots and other parcels of land
- The design, construction, and maintenance of stormwater drainage facilities and systems
- The design, construction, and maintenance of stormwater quality facilities and systems

3.5 Sewer Use Agreement

GSD has sewer use agreements with three separate entities. These entities are the City of Hobart, Indiana, the City of Lake Station, Indiana, and the Merrillville Conservancy District in Indiana. These agreements are on file at GSD's Administrative Offices and are attached in **Appendix 2**.

Each agreement makes clear that GSD is not responsible for the collection system and all appurtenances, including lift stations, within the satellite communities themselves.

The City of Hobart's agreement became effective on July 10, 1984; City of Lake Station's agreement became effective on September 6, 1984; and Merrillville Conservancy District's

agreement became effective on October 15, 1985. All three agreements are continuous running agreements unless otherwise agreed upon to dissolve the agreement.

3.6 Industrial Wastewater Permits

Table 2-1 lists permitted Industrial Users.

3.7 Information Services

3.7.1 Record Keeping

Record keeping consists of original blueprints, drawings, and mylar records; most drawings have been converted into electronic copies; videotapes and electronic copies; and field paper records and electronic copies of reports. All blueprints, drawings and mylar records are kept in storage drawers in GSD's Technical Services Department.

GSD reports CSOs events to IDEM on a monthly basis via Monthly CSO Reports. Reports are generated based on data from GSD's telemetry system. GSD utilizes iFIX which is an HMI software to visually display CSO data. CSO flows are calculated by the PLCs in the field and recorded on the Profecy Historian software which is a module to iFIX. PLC records data every thirty seconds and is saved in the Profecy Historian software.

Data acquisition for GIS mapping is recorded on field data sheets and transferred directly to a database periodically.

Requests for services, complaints and problem notifications are recorded on a Work Order and are entered into the proper database by GSD's Administrative Staff. After a problem has been investigated and resolved, the database record is updated by the same staff. This system permits the tracking of Work Orders that are still unresolved.

Manhole inspections are recorded in the field and later entered directly into the GIS database.

Electronic video records are saved on GSD's internal network.

Pump station corrective and preventive maintenance activities are recorded by maintenance crew on the proper form and later entered into a lift station database by the Plant Superintendent. Additionally, individual electric and natural gas bills are entered into a separate database for evaluation periodically by the Plant Superintendent for trends that might indicate a developing problem.

3.7.2 Availability

Ultimately, all collection system data, including CSO data, will be stored electronically and available to all collection system personnel and other GSD personnel. Currently, while there is

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no restriction on access to blueprints and drawings, administrative, superintendent, and supervisor level personnel generally utilize these resources. Mylar drawings are not distributed for protection of this resource.

Electronic versions of the 14 section maps are available to all personnel through the Collection or Technical Services Departments and are located in an unrestricted shared directory on the internal network.

In addition, electronic versions of video records from sewer televising are available to all Collection Department personnel through three external hard drives in the Technical Services Department.

The manhole inspection database and the pump station database are also accessible by all Collection Department Personnel through the internal network.

3.7.3 Analysis of Data

In general, data is collected, compiled, and evaluated by the appropriate personnel for daily work assignments, identification of developing or actual problems, troubleshooting and planning.

When problems arise that require cooperation between area supervisors, the issue is discussed openly and cooperatively. Weekly supervisor meetings are used to identify problems with pump start frequency and run time duration; potential I/I problems; and reserve capacity at lift stations. Often the analysis results in a cooperative, corrective effort between areas of responsibility.

Section 4 – Maintenance

4.1 **O&M of Collection System**

The operation and maintenance of the collection system falls under GSD's Technical Services Department. The Technical Services Department is divided into three separate divisions: Collections, Storm Water/MS4, and Lift Stations.

The Collections Department is responsible for the cleaning and maintenance of GSD's combined and sanitary sewer system. The Collections Department is also responsible for the repairs of any damaged storm sewer or catch basins.

However, the Storm Water/MS4 Department is responsible for the cleaning of storm sewer catch basins. The Storm Water/MS4 Department is also responsible for the maintenance of ditches and street sweeping.

The Lift Stations Department is responsible for the operations and maintenance of all GSD Lift Stations including sanitary, combined and storm water. The Lift Stations Department is also responsible for the O&M of all CSO regulators.

Prior to an expected wet weather event, the Lift Station Crews will ensure all the lift stations pumps are available and ready when needed. During a wet weather event, the Lift Station Crew will verify that in fact, a CSO event is occurring by visually confirming the event.

4.2 O&M of WWTP During Wet Weather

GSD has prepared a Combined Sewer Overflow Minimization and Wet Weather Guidelines for the Operators of the WWTP (**Appendix 5-2**). This guideline provides the strategy necessary to process all wet weather flows received up to the capacity limits of each unit process. During a wet weather event the Operators of the WWTP should place all screening equipment in manual in the event of a rapid flow increase, increase frequency of operator rounds to check for obstructions and proper function of all process equipment, placing all available raw sewage pumps online to reduce the wet well levels which will allow additional storage in the collection system, etc. If the wet level cannot be maintained and the treatment plant begins to exceed its 120 MGD capacity, reducing flow to the treatment plant must take place by partially closing the NPDES permitted Combined Sewer Regulators gate(s) at one of the seven (7) specified CSO regulators within the collection system from nearest to the treatment plant to the farthest. Once the interceptor level stabilizes, and flow through the treatment plant has been maximized, initiate the opening of the regulator's gates in 5% - 10% increments in reverse order until all regulators gates are 100% open. If there is a power failure or equipment malfunction, the main influent gate can be closed in order to prevent flooding of the Treatment Plant Headworks.

4.3 Systems and methods used to Monitor CSOs

GSD utilizes a telemetry system to monitor combined sewer overflow events at the overflow points along the Little Calumet River and the Grand Calumet River. The telemetry system tracking the regulators located along the Grand Calumet River, that can be remotely operated, have the ability to show the flow of the CSO event at each site including the weir level. However, the telemetry system tracking the regulators along the Little Calumet River only measures the level of the weirs and indicates when a CSO event is occurring. Flows of a CSO event along the Little Calumet River can be estimated using an equation based upon the weir level. Data that is collected are entered into a monthly CSO Report and submitted to IDEM.

4.4 **O&M Records Procedures**

GSD uses standards inspection forms when investigating the conditions of manholes, catch basins, sewers and lift stations. These standard forms can be found in **Appendix 3**.

Service request from customers generally is received over the phone to the Technical Services Department. Once a request for service has been made, a crew is dispatched to investigate the request. Based upon the findings of the investigation, a Work Order is developed and recorded in GSD's MainSaver Computer Program. The work crew prepares a paper Work Order explaining the work they did each day and is turned in at the end of the day to the District Foreman who examines the work order for completeness and notes additional work which may be required. If additional work is required, the Work Order is not turned in as completed. The District Foreman turns in the paper Work Order to the Technical Services Department who then enters the completed Work Order into the MainSaver Program. The computer database is archived for reference use and is backed up by the IT Department on a regular basis.

Most manhole and catch basin repairs are completed by GSD employees, while most sewer cavein repairs are contracted out to contractors.

4.5 Examples of current Maintenance Checklist/Inspection Sheets

GSD utilizes checklist for the inspections of lift stations, regulators, catch basins, manholes, and sewers. These checklists can be found in **Appendix 3**.

The vital equipment at the treatment plant is inspected on a regular basis by the Operations Department. If the operators observe the equipment is not operating as designed, the Operations Department creates a Work Order, and the Maintenance Department is then notified repairs are needed through this work order.

4.6 Inventory of Equipment and Parts to Control CSOs

GSD utilize various types of equipment to maintain maximum capacity and flow in the collection system and WWTP. Examples of these pieces of equipment are listed below.

Collection System

- Two Televising Trucks
- Boom Truck
- Portable 6-inch Trash Pump
- Four Vactor/Jet Trucks
- Two Backhoe
- Front End Loader
- Excavator
- Tiger Mower
- Six Dump Trucks
- One Roll Off Box
- Two Backup Generator for Lift Stations:
 - o One 100 kV
 - \circ One -50 kV
- Four Bypass Pumps for Lift Stations:
 - o Two 6-inch pumps
 - o One 4-inch pump
 - o One − 3-inch pump
- Misc. Maintenance

WWTP

- Backup Generator to close the Main Influent Gate of the WWTP
- Switch Gear for second electrical feed during power outage
- T-Rex Crane
- Portable Trash Pumps and Sump Pumps

Maintenance Equipment

Vactors/Jet Trucks

Street Sweepers

• Three Hydraulic Boom Sweepers

Critical Spare Parts

• Appendix 6 contains the list of Critical Spare Parts.

4.7 Maintenance Schedule

4.7.1 Catch Basins

GSD's system has approximately 6,005 catch basins. Catch basins in combined sewer areas are inspected and cleaned as necessary under the same inspection program as cited in Section 4.1. Each year, GSD's Collection Department assigns a map section to a specific crew to inspect catch basins. There are a total of 14 map sections, with all sections being inspected on a three year cycle. Certain special catch basins are cleaned and inspected annually as they are prone to

flooding more so than others due to their location of capturing more volume of runoff during a storm event.

Problem catch basins are identified by supervisory review of the databases and are cleaned more frequently. In addition, catch basin cleaning occurs as preventive maintenance before anticipated precipitation events and when street flooding is reported by citizens or other City Departments. Also, GSD has developed a list of catch basins and areas that have been historically identified as trouble areas for standing water, in the event that these catch basins were plugged with debris or blocked via ice dam buildup. **Table 4-1** presents the past recent years of catch basin cleaning.

Table 4-1. Catch Basin Cleaning

Year	Catch Basins Cleaned (#)
2015	990
2016	1,391
2017	1,275
2018	985

4.7.2 Manholes

GSD's system has approximately 11,434 manholes. All manholes are inspected on a ten year cycle. Manholes are cleaned as necessary under the inspection program or as required while resolving a problem under a Work Order. Problem manholes are identified by supervisory review of the databases and are cleaned more frequently. Also, visual "flow checks" are intended to be completed on all manholes within a three year cycle to check for and guard against the potential for debris buildup in the collection systems. Similar to catch basins, each year, GSD's Collection Department assigns a map section to a specific crew to inspect manholes. There are a total of 14 map sections, with all the sections being inspected on a 3 year cycle. **Table 4-2** presents the past recent years of manhole inspections.

Table 4-2. Manhole Inspection

Year	Manholes Inspected
	(#)
2015	1,733
2016	861
2017	1,070
2018	2.051

4.7.3 Sewers

Current practice is to clean and/or inspect, for preventive maintenance, all sewers every twenty years. **Table 4-3** presents the past recent years of sewer cleaning and televising.

Sewer Sewer Cleaning **Televising** Year (feet) (feet) 2015 125,065 40,087 2016 69.283 15,612 80,850 13,857 2017 89,847 25,160 2018

Table 4-3. Sewer Cleaning and Televising

4.7.4 Lift Station

Preventive and scheduled maintenance for lift stations is described in Section 4.1. Preventive Maintenance is scheduled through the MainSaver Computer System. Lift Station Equipment is reviewed on a monthly basis. Regulators and Outfalls are inspected on a daily basis

4.7.5 Maintenance Practices

GSD has a manhole and catch basin inspection standard operating procedure to ensure that each manhole and catch basin is inspected and cleaned as required. Current manhole and catch basin inspection planning efforts anticipate inspecting the manholes associated with 40 miles of sewer per year and completing all manhole and catch basin inspections over a 10-year period.

GSD also has a street cleaning program that helps to keep sediment and debris from entering catch basins, make cleaning them less frequent. GSD street cleaning program goal is to clean over 160 miles of streets each year.

GSD maintenance crew performs lift station maintenance and repair, as required. The thirty (30) lift stations are inspected a minimum of once per week, and more frequently for larger more vital lift stations. Each Lift Station has a specific SOP for Preventive Maintenance. The conversion to real-time telemetry has permitted the reduction of physical inspection frequency without compromising the operation and maintenance of the lift stations.

4.8 Identification of Sewer System Problem Areas

Sewer system problems are identified from various sources: telephone requests for service, citizens' complaints by e-mail, meetings, etc.; information transferred from and generated by other Municipal Departments; and District generated work orders resulting from in-house inspection and maintenance programs.

4.8.1 Street Cleaning

Street cleaning, to remove debris, dirt, and dust, is used to reduce the source of storm water-related pollutants. The majority of the street contaminants are soil and asphalt erosion, automobile contaminants, and sand (due to our proximity to Lake Michigan). Street cleaning is accomplished by hydraulic broom sweepers. Hydraulic boom sweeper loosens dirt from the street surface and collects it in a temporary hopper. GSD cleans the city streets weekday from early spring to late fall, when the complications of freezing are not present. GSD has three sweepers in use. The city is broken up into 13 sections. The three sweepers work in the same section and complete all streets in the section before moving on to the next. It takes approximately 8.6 weeks to complete one of the sections of the city.

4.8.2 Catch Basin Cleaning

A catch basin is a chamber well which accepts street surface water and discharges into a sewer. The catch basin has a sediment sump at its base which traps some of the coarse debris and grit from the surface water runoff. This minimizes sewer clogging and reduces the amount of pollutants which may enter and eventually settle out in the sewers. Cleaning of these catch basins prevents accumulation of sediment which can become re-suspended and enter the sewer with the basin overflow.

GSD has mapped the majority of the catch basins and has prepared a layer on its GIS system. Efforts are on-going to map 100% of the catch basins throughout the collection system.

GSD currently uses crews consisting of two or more individuals to inspect, clean and vacuum the catch basin. The crews use combination jet/vacuum trucks to accomplish these tasks. The number of catch basins cleaned each year is documented and tracked using Daily/Weekly Operating Report (DWOR) (**Appendix 7**). Between 2005 and 2017 a total of 17,494 catch basins have been inspected and cleaned.

4.8.3 Sewer Flushing

The dry weather deposition of solids in sewers is a major cause of the "first-flush" phenomenon. The average dry weather flow velocities are inadequate to keep solids suspended, especially where sewer grades are flat. Up to 30% of the total collected solids may be deposited in combined sewers. Periodic sewer flushing can remove and transport the material to the treatment

plant before a storm event washes it into a receiving stream via an overflow. Sewer flushing also maximizes the hydraulic capacity of the sewer for wet weather flows.

Between the years of 2003 through 2007, GSD conducted a heavy sewer cleaning project. This project cleaned sewers 20-inches and larger. A total of 27.644 million pounds of debris were removed over this period of time, and over 97.74 miles of sewer was cleaned. Along with the heavy cleaning, a sewer assessment study was conducted jointly. Several locations of sewers were determined to need immediate repairs and were taken care of before an emergency situation arose.

When sewer cleaning is conducted by GSD staff, it consists of flushing unless an excessive amount of debris is noted by the crew. If debris is noted, the line is vacuumed while flushing. All District flushing vehicles are combination jet/vacuum units.

Between the years 2005 through 2017, GSD staff has continued a sewer flushing program. Starting in 2005 GSD has cleaned over 310 miles of sewers. Tracking of sewer cleaning activities is recorded in GSD's DWOR system (**Appendix 7**). From 2005 through 2017, 12,756 detailed manhole inspections have been completed.

Records are kept on sewer blockages and residential back-ups and reviewed in accordance with procedures described in Section 4.4.

Sewer televising is accomplished on an as-needed basis. GSD is currently developing a sewer system video inspection schedule that will provide for the adequate inspection of the sewer system.

The sewer system is mapped into 13 sections. There are 2 sewer trunk sections mapped by the route to the treatment plant. Section B-5, B-6, C-3, C-4, C-5 and C-6 flow comes from the east, while Section D-2, D-3, D-4, and E-3flow comes from the south. Sections C-2, D-1 and D-2 flow comes from the west.

GSD has mapped the entire sewer system including all manholes and pertinent information (i.e. rim and invert elevations). GSD currently uses crews consisting of two or more individuals to inspect the manholes. The number of manholes inspected each year is documented and tracked using the same DWOR.

GSD currently is enhancing its sewer asset management program, which includes an evaluation of GSD's current inspection equipment, working with vendors for possible purchase of new equipment, continual enhancement of its data gathering strategy, modernizing its in-field data collection applications, and an evaluation of facilitating information exchange with other existing software in GSD's system. That project is underway and is scheduled for completion Spring 2019.

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4.8.4 Lift Stations

GSD's Collection Department maintains the lift stations on both an emergency and preventative maintenance basis. Corrective maintenance is performed on an as-needed basis, twenty-four hours a day. The lift stations are inspected on a daily basis, and the response for the corrective maintenance activities is based on either the visual inspection or by the type of alarm the telemetry is indicating at an individual lift station. GSD began a project to install real-time telemetry at major lift stations throughout the collection system. GSD has installed real-time cellular telemetry system on five Lift Stations to date. The lift stations fitted with this technology now have digital signals for each pump that indicate pump run/off, pump normal/fail, wet well normal/low level, wet well normal/high level, power normal/fail, and backup float control on/off. These lift stations also have an analog input for the wet well level.

For preventative maintenance, lift stations Work Orders are generated through the Mainsaver Program. The Lift Station Crew completes the preventative maintenance on a daily basis.

4.9 Repairs

4.9.1 Catch Basins

Catch basins are repaired on an as-needed basis determined by the procedure described in Section 4.1

4.9.2 Manholes

GSD's manholes are generally in good condition. Degraded manholes are prioritized and repaired as needed.

4.9.3 Sewers

Sewers, whether storm, sanitary or combined, are scheduled for repairs on a priority basis, dependent upon the severity of the cave-in and the potential for additional property damage.

4.9.4 Lift Station

The lift stations within the City of Gary are rehabilitated as needed based on daily inspections.

Section 5 – Control Strategy

5.1 Source Controls

Technology-based controls, also known as the nine minimum controls, are designed to minimize the impact of combined sewer overflows on the water quality of the receiving water body by utilizing source control and collection system controls. These include pollution prevention programs, pretreatment programs, and proper operation and maintenance of the collection system to minimize the duration of overflows and maximize flow to the treatment plant.

5.2 Collection System Controls

Through a telemetry and SCADA system, GSD is able to monitor all CSOs along the Little Calumet River and Grand Calumet River, and also have the ability to control the overflow gates of the regulators of the CSO points along the Grand Calumet River. These and other Collection System Controls are described below.

5.2.1 Conventional Combined Sewer System Controls

5.2.1.1 Side-by-Side Weirs

The side-spill weir is constructed parallel to the combined sewer axis to divert flow from the interceptor sewer. Excess flow passes over the side spill weir into the permitted outfall sewer. The weir should be set to hold back peak dry weather flow, as well as to maximize the use of interceptor capacity during wet weather. This regulator may be used for any volume flow. All the regulators along with the Little Calumet River utilize the side-by-side style weir.

Side-by-side weirs are inspected on a weekly basis and the data collected is entered into GSD's maintenance records.

5.2.1.2 Semi-Automatic Regulators

GSD has installed electrically operated gates for regulators along the Grand Calumet River in lieu of cylinder operated gates. Whenever there is an overflow at one of these regulators, the Collection Department conducts a site visit to visually witness the closed gate and the overflow event.

The regulators along the Grand Calumet River are inspected on a weekly basis and the data collected is entered into GSD's maintenance records.

5.3 Treatment Controls

Currently, GSD is able to treat solids and floatables of CSOs. These treatment measures are handled through street sweeping activities and the regular maintenance and cleaning of the

overflow weir structures. These are explained under the Nine Minimum Control measures under Section 5.5.

5.4 Wet Weather SOPs

5.4.1 Precipitation Monitoring

5.4.2 WWTP Weather Station

GSD uses WeatherBug to monitor weather or precipitation. GSD also utilizes rain gauges throughout the collection as described below.

5.4.3 Location of Other Rain Gauges

Rain gauges capable or measuring 0.01 inch of precipitation are located at 3 lift stations and 4 regulators within GSD's service area. These locations are described in section 2.2.7. The 7 locations were chosen to help monitor CSO during wet weather events. Data is stored on the internal network and is accessible to key personnel. Stored data is used for analysis of storms and impacts on the collection system and the treatment plant.

5.5 Implementation of Nine Minimum Controls

As part of the new NPDES Permit issued on July 1, 2017, GSD was required to comply with the nine-minimum technology-based controls in accordance with the federal CSO Control Policy. A procedure manual was developed in 2004 and continues to be updated based upon operational changes.

5.5.1 Proper Operation and Regular Maintenance Programs

As directed by the Indiana Department of Environmental Management (IDEM), GSD began reporting customer complaints of basement backups into private residences as sanitary sewer overflows beginning in August 2009. Wet Weather CSOs are generally on the Little Calumet River, which does not have a SCADA controlled overflow (only weir overflow) and generally occurs during high flow in those areas. During these times of high flows, GSD processes flow exceeding 120 MGD through the treatment facility in accordance with the Wet Weather Plan and without impacting final effluent quality. GSD continues to work on improving the efficiency of the raw sewage pumps in order to maximize the peak flows the facility can handle.

GSD also brought the Tertiary Filter Process back on-line and constructed a new deep bed filtering process.

5.5.2 Maximization of Storage in Collection System

Procedures to maximize the use of storage capacity of the combined sewer system has been established and laid out in GSD's Combined Sewer Overflow Minimization and Wet Weather Guideline. This document explains the strategy to be implemented during wet weather

conditions to maximize storage in the collection system prior to a CSO event. It further describes the sequence to be used in closing CSO Regulators within the collection system to provide hydraulic relief of combined sewage to prevent flooding within the collection system.

Currently, there are no permitted overflow points within the treatment plant. To avoid damage to the treatment plant, excess flow beyond the plant design capacity must be overflowed at twelve (12) NPDEDS permitted CSO control regulators located throughout the collection system.

5.5.3 Review and Modification of Pretreatment Requirements

The Industrial Pretreatment Program enforces the City of Gary's Sewer Use Ordinance (SUO) No. 8839. This program has been modified, reviewed by IDEM and USEPA and submitted to Common Council for adoption. Letters have been sent to all permitted industries requesting Best Management Practice for Wet Weather flow reductions. Similar language has been incorporated into the Industrial Inspections forms. During annual inspections, Industrial facilities are inspected for illegal connections of stormwater streams to the sanitary system. In response to GSD's request for minimization of flows during wet weather, the majority of Industrial clients have adopted measures to either alter production or divert flows into holding tanks. During inspections, the importance of discharge minimization and the potential impact of pollutants to the waterways are conveyed to the industrial representative.

5.5.4 Maximization of Flow to the WWTP for Treatment

GSD completed upgrades to its Aeration System in 2002, which made the treatment plant a single stage activated sludge rather than a two-stage plant. This upgrade increased the design capacity of the treatment plant from 80 MGD to 120 MGD, helping to reduce the frequency and volume of CSOs. Also, GSD has recently been able to operate all the Raw Sewage Pumps in the Headworks Building to reach a peak flow over 150 MGD without compromising the quality of the plant's effluent.

GSD's Combined Sewer Overflow Minimization and Wet Weather Guideline explain the importance to prepare the treatment plant for wet weather conditions and the strategies to be utilized during a wet weather event.

5.5.5 Elimination of CSOs During Dry Weather

Actions needed to prevent and eliminate dry weather overflows fall into two categories:

- Inspection
- Maintenance

By engaging in these activities, the ability to prevent dry weather overflows and take the necessary measures to prevent the occurrence of dry weather overflows before they start is enhanced. GSD inspects its CSOs daily and performs repairs as needed.

5.5.6 Control of Solid and Floatable Materials in the CSOs

The City of Gary provides street sweeping services. Each street is intended to be swept at least once per year; downtown area streets should be swept more often. Sweeping frequency requirements increase in the spring to remove grit from streets and in the fall to remove leaves from the streets. Street sweeping is a method to control solids and floatables from entering the combined sewer system. The City owns and operates hydraulic boom street sweepers. Trash receptacles located in the downtown and park areas are maintained by City or Park employees to help control debris that could enter the combined sewer system.

The design of the CSO regulators diversion structures was intended to capture solids and to minimize floatables as much as possible. Preventing the conveyance of floatables into the receiving streams during CSO events by retaining such material for return to the collection system and conveyance to the treatment plant is accomplished through the CSO regulator design. The regulators located along the Grand Calumet River have a double weir system that manages floatables. Each of the downstream weirs is higher in elevation that the upstream weir in the regulator structure and is the control feature on overflows to the Grand Calumet River. The regulators along the Little Calumet River have baffles installed to manage control floatables. Periodic inspection of the CSO regulators and cleaning as required is performed to minimize the discharge of solid and floatable materials during wet weather events.

5.5.7 Pollution Prevention Programs to Reduce Contaminants in CSOs

The City of Gary has ordinances prohibiting:

- 1. Littering from motor vehicles.
- 2. Disposal of garbage or rubbish on streets, rivers, parking lots, parks or other public property.
- 3. Dumping in or obstructing rivers, streams, drainage ditches, or places from which it may wash or fall therein.
- 4. Storing or depositing of any hazardous substances and other pollutants on the ground or in a manner that does not prevent run-off.

The following are specific actions conducted on an annual basis:

- The Lake County Solid Waste Management District operates a household hazardous waste program in conjunction with drop off days in the City of Gary. In addition, Gary residents can take household hazardous waste to any LCSWMD drop off sites. This program is the major avenue to keep the homeowner's hazardous waste streams out of the collection system and reduce the toxics that enters the system from the small, unmonitored sources.
- GSD has provided an informative video to help educate the public on how to assist in minimizing pollution.
- Pollution prevention information is transmitted to GSD customers with bills to inform citizens about wastewater treatment, conservation and other environmental issues of the day.

• GSD continues the use of an already effective IPP and has developed a comprehensive education program for industrial users geared toward the elimination of environmentally damaging pollutants.

The Gary Storm Water Management District (GSWMD) has developed and implemented a variety of measures designed to reduce both the quantity of stormwater run-off and the amount of sediment and other contaminants contained in the stormwater which enters the combined sewer system during rain events. These measures include:

- 1. Adoption and implementation of a comprehensive Storm Water Ordinance which regulates certain residential, commercial, and construction activities to minimize the volume of stormwater discharges from developed properties and improve the quality of stormwater runoff through the application of a variety of best management practices. The ordinance creates procedures for site plan review of construction plans and has procedures for site inspection and enforcement of control measures. The ordinance also includes post-construction stormwater run-off control requirements which contribute to the prevention and reduction of the discharge of pollutants like sediment which can reduce the capacity of the combined sewer system.
- 2. The Gary Storm Water Management District has implemented a Stormwater Quality Management Plan which includes 6 Minimum Control Measures with goals to reduce contaminants from entering the combined sewer system. These control measures are listed below:
 - a. MCM 1 Public Education and Outreach
 - b. MCM 2 Public Participation and Involvement
 - c. MCM 3 Illicit Discharge Detection and Elimination
 - d. MCM 4 Construction Site Storm Water Runoff
 - e. MCM 5 Post-Construction Storm Water Runoff
 - f. MCM 6 Municipal Operations Pollution Prevention and Good Housekeeping
- 3. Public information distribution and outreach events to educate residents, businesses, municipal departments, and contractors of best management practices to reduce stormwater run-off and improve water quality through the implementation of good housekeeping and other best management practices such as the use of rain barrels, rain gardens, green infrastructure, eliminating storm water connections to the sanitary sewer system, etc.

5.5.8 CSO Public Notification Plan

GSD has developed a CSO Public Notification Plan in fulfillment of its obligations under the United States Environmental Protection Agency's (USEPA's) Public Notification Requirements for Combined Sewer Overflows (CSOs) to the Great Lakes Basin, effective date February 7, 2018 (the Notification Rule; 40 CFR §122.38).

This CSO Public Notification Plan addresses the 4-hour and 7-day notification requirements of the Notification Rule. The monthly Discharge Monitoring Reports (DMRs) are already and will continue to be issued.

The Notification Rule requires that National Pollutant Discharge Elimination System (NPDES) permittees that have CSO discharges to the Great Lakes Basin must:

- Develop and submit to USEPA a CSO Public Notification Plan by August 7, 2018
 - o Incorporate the CSO Public Notification Plan into the permittee's next permit renewal. GSD's NPDES permit expires June 30, 2022
- Implement CSO Public Notification Plan by November 7, 2018
- Submit Annual Report May 1, 2019 and each year thereafter

GSD submitted its plan in accordance with the guidelines on 8/7/2018. IDEM then responded with comments on 8/30/2018, and GSD submitted a revised plan on 9/29/2018, incorporating responses to those comments. The CSO Notification Plan is presented in **Appendix 8**.

5.5.8.1 Signage

Appendix 8 Section 2.0 presents a photograph of the signs now posted at each CSO outfall in GSD's system. Each sign shows the number of the CSO outfall as well as the NPDES permit number

5.5.9 Monitoring to Characterize CSO Impact and the Efficacy of CSO Controls

All permitted overflow points are monitored via telemetry continually. Monitoring activities include collection and review of the Telemetry System information as well as regular visits to each of the regulators to inspect each area for cleanliness and to identify any special needs or requirements. Any problems identified are followed up with work requires and prioritized so that corrective actions can be planned and implemented.

There is a plan to continue upgrading the lift stations with backup power and level sensing equipment minimize all overflows and to monitor peak flows during wet weather. In addition, lift stations are being equipped with Omni-site communications equipment to notify key personnel of alarm conditions at the lift stations.

GSD, working with USEPA and IDEM, is preparing a CSO LTCP, which will present a recommended Plan for further control on CSO discharges.

Section 6 - Schedule of Future Activities

6.1 Staffing

GSD staffing levels are adequate for completing the District's mission. The current staffing level is adequate for completing tasks required by the CSOOP.

6.2 Collection System

GSD completed a Large Diameter Sewer Cleaning and Televising Project that cleaned, televised and assessed all sewers 30-inch in diameter and larger. A total of 516,108 feet of sewers were covered and over 13,822 tons of materials were removed. Since the completion of this project, the number of customer complaints has dramatically decreased. Additionally, with the removed debris from the system, additional capacity in the sewer system has reduced the occurrence and volume of combined sewer overflows. The small diameter sewer flushing, and televising program is an on-going effort being conducted by GSD.

GSD has completed the construction of a flow modification project near 32nd Avenue and Broadway on March 2018. A new relief drop sewer and diversion structure were installed to reduce the frequency of combined sewer overflows to the Little Calumet River and maximize dry weather flow to the 60-inch Central Area relief interceptor.

All seven Regulators along the Grand Calumet River have real-time SCADA Controls to monitor overflows and to control gates to initiate overflows. Additionally, a *Combined Sewer Overflow Minimization and Wet Weather Guideline* has been created. This guideline lays out the strategy to operate these gates to avoid or minimize combined sewer overflows.

6.3 Infiltration and Inflow Control Projects

Sewer lining projects have recently been completed in certain areas of the collection system. The following lists projects completed in the last few years:

- 38th Avenue cave-in repair and sewer lining between Alley 1 East and Alley 5 East, March 2006
- 375 Johnson Street CIPP repair, February 2015
- 403 Johnson Street CIPP repair, February 2015
- 421 Grant Street CIPP repair, February 2015
- 1500 Broadway Avenue375 Johnson Street CIPP repair, February 2015
- 4425 East 10th Avenue CIPP repair, February 2015
- 5233 Carolina Street CIPP repair, February 2015

Currently, GSD has embarked on a project with the Army Corps of Engineers under its 219 funding program to line and repair portions of the sewer system bounded on the west by Bridge Street, on the south by 6th Avenue, on the East by Broadway and on the north by 1st Avenue.

6.4 Lift Station & Regulator Upgrades

GSD has eliminated the Permitted Overflow Point No. 003, which was located at the Old 27th and Chase Street Lift Station. GSD was able to eliminate this CSO during upgrades of the 27th and Chase Street Lift Station and increased the flow capacity of the Lift Station from 40 MGD to 80 MGD. This increase in capacity allowed this overflow point to be permanently closed.

GSD has constructed a New Relief Drop Sewer Structure at the existing 32nd and Alley 1 East diversion structure. The purpose of the new relief drop sewer is to: a) reduce the frequency and volume of combined sewer overflows to the Little Calumet River during wet weather by providing additional wet weather diversion capacity from Alley 1 East sewer to the 60-inch combined sewer that flows west to the 27th and Chase Street Pump Station, and b) maximize the use of the capacity of the 36-inch gravity combined sewer that flows north under the Borman Expressway (I-80/94) to GSD's WWTP via the Central Area/Alley 9 East interceptor during all flow conditions. This construction was completed in March 2018.

6.5 Treatment Plant Upgrades

The Wastewater Treatment underwent upgrades in 2002 and now operates as a Single Stage Activated Sludge Plant, which increased the maximum day design flow to 120 MGD. Before the upgrades, GSD's WWTP was a two-stage plant with a maximum day design flow of 80 MGD.

GSD has completed the construction of the WWTP Tertiary Filter Building Rehabilitation. This project included the replacement of all the existing filter appurtenances including media, underdrains, and air piping. The new filters were designed with new deep bed coarse monomedia filtration system with air scour capabilities. The new filters also have the capabilities to add media and convert to deep bed denitrification filters if required in the future. The concrete underdrains and the backwash troughs were also replaced with this project. New Backwash Blowers was also installed along with new filters/silencers and new air conveyance piping from the blowers to filters for air scouring of the filters. Additionally, as part of this construction project a primary solids degritting system was constructed. This system removes grit that was not captured in the detritus tanks and removed it from the primary solids ahead of gravity thickening.

6.6 CSO Long Term Control Plan

GSD is in the process of developing its Long Term Control Plan, which will be the guide for future CSO mitigation activities. The schedule for the LTCP is included in GSD's Consent Decree (effective 3/19/2018).

As part of that process, GSD submitted its CSO Characterization Report to USEPA/IDEM 7/17/2018 and will submit a revised Report 1/31/2019. A Stress Test Report was submitted 7/17/2018 as well.

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

Upon receipt of USEPA approval of the CSO Characterization Report, the next steps in this process are:

- Technology / Alternatives Screening
- Alternatives Analysis and Recommended Plan Evaluation, including Cost / Performance Analysis
- Financial Capability Assessment, including Recommended Plan CSO Control Measures
- Long Term Control Plan Draft and Final
- Public and Regulatory Agency Participation (throughout the process)

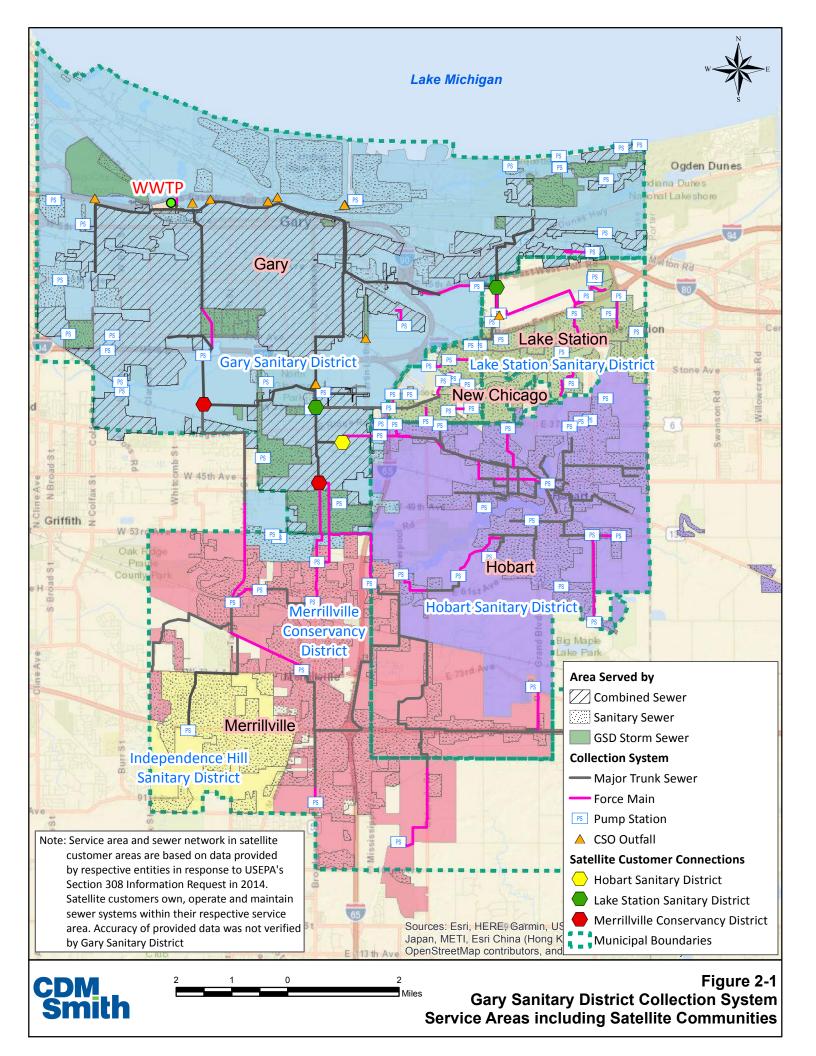
GSD will use the detailed information developed as part of the CSO Characterization Report, as well as the Stress Test Report, to develop a system-wide CSO LTCP to abate the impacts of CSO discharges to meet the objectives and requirements of the 1994 CSO Control Policy.

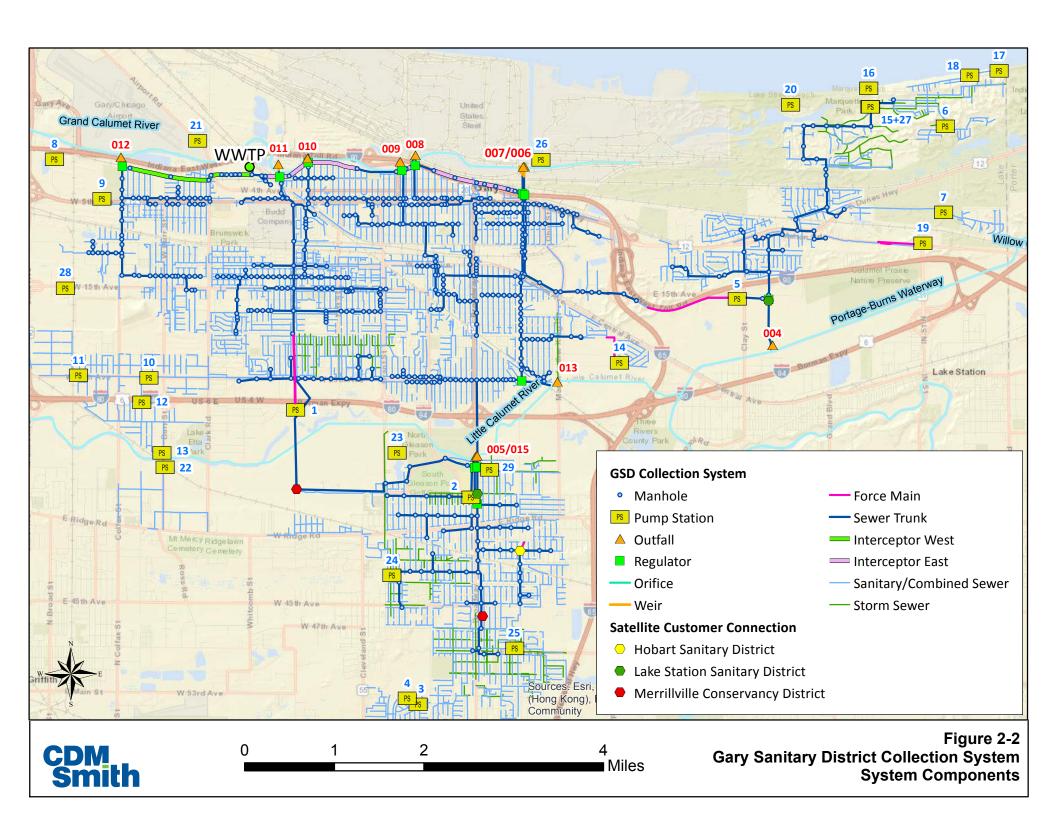
Report Submittal: 5/18/2018

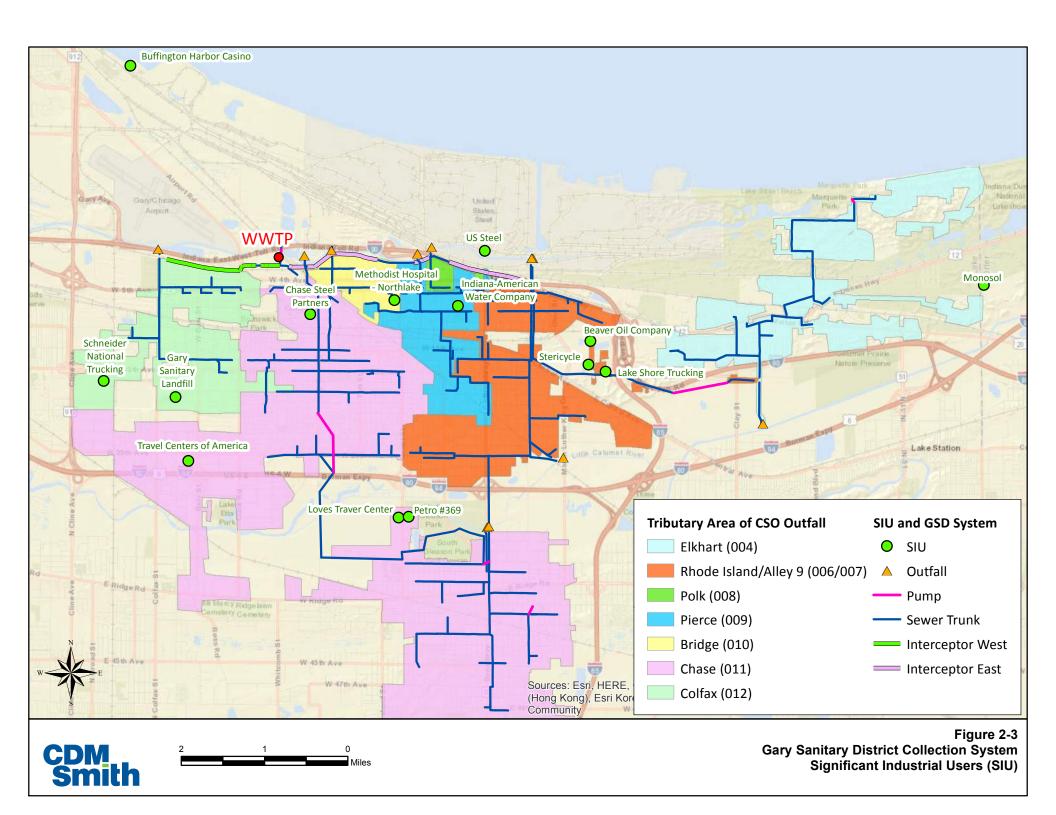
Annual Update: 1/31/2019

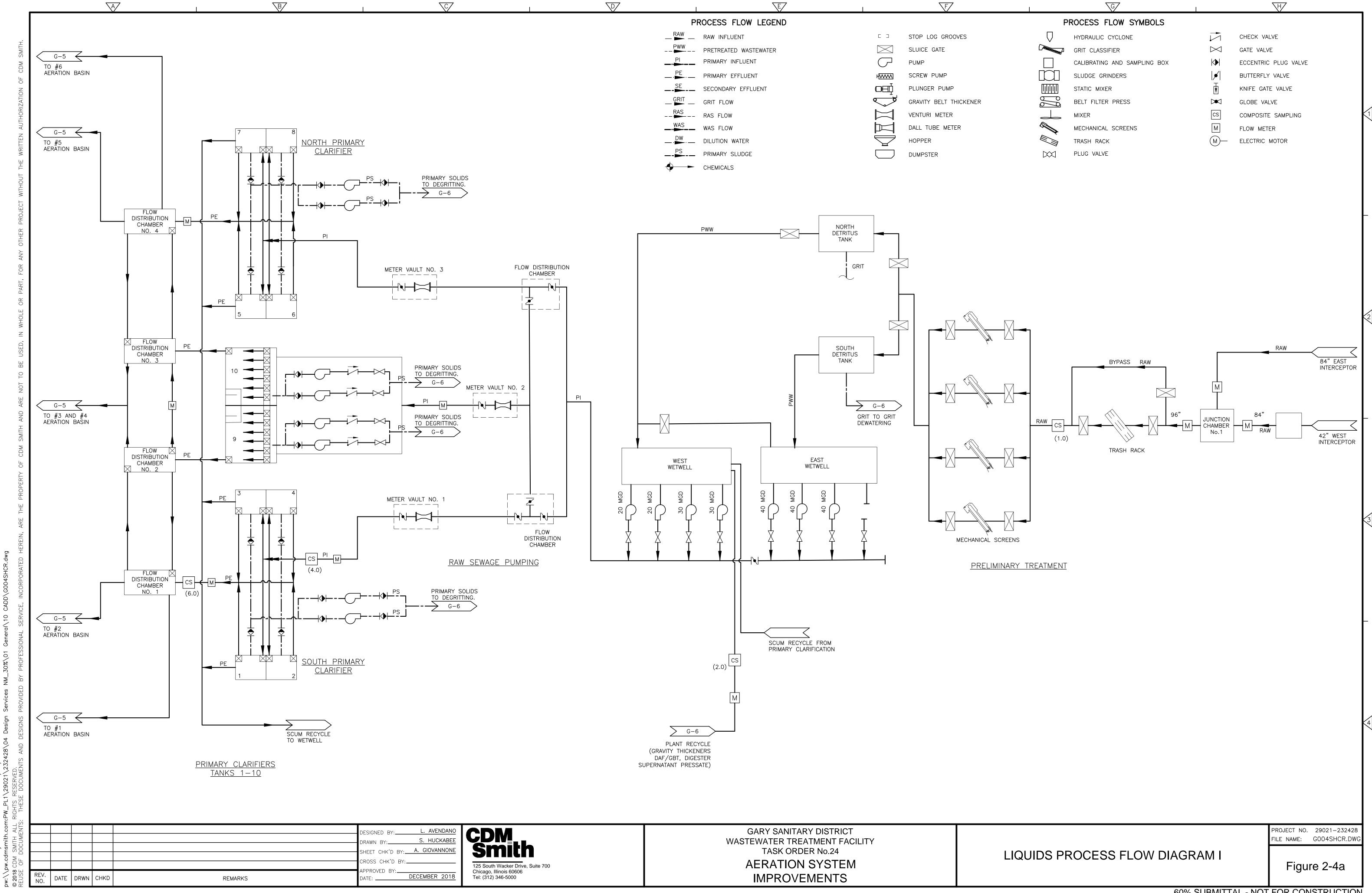
Combined Sewer Overflow Operational Plan

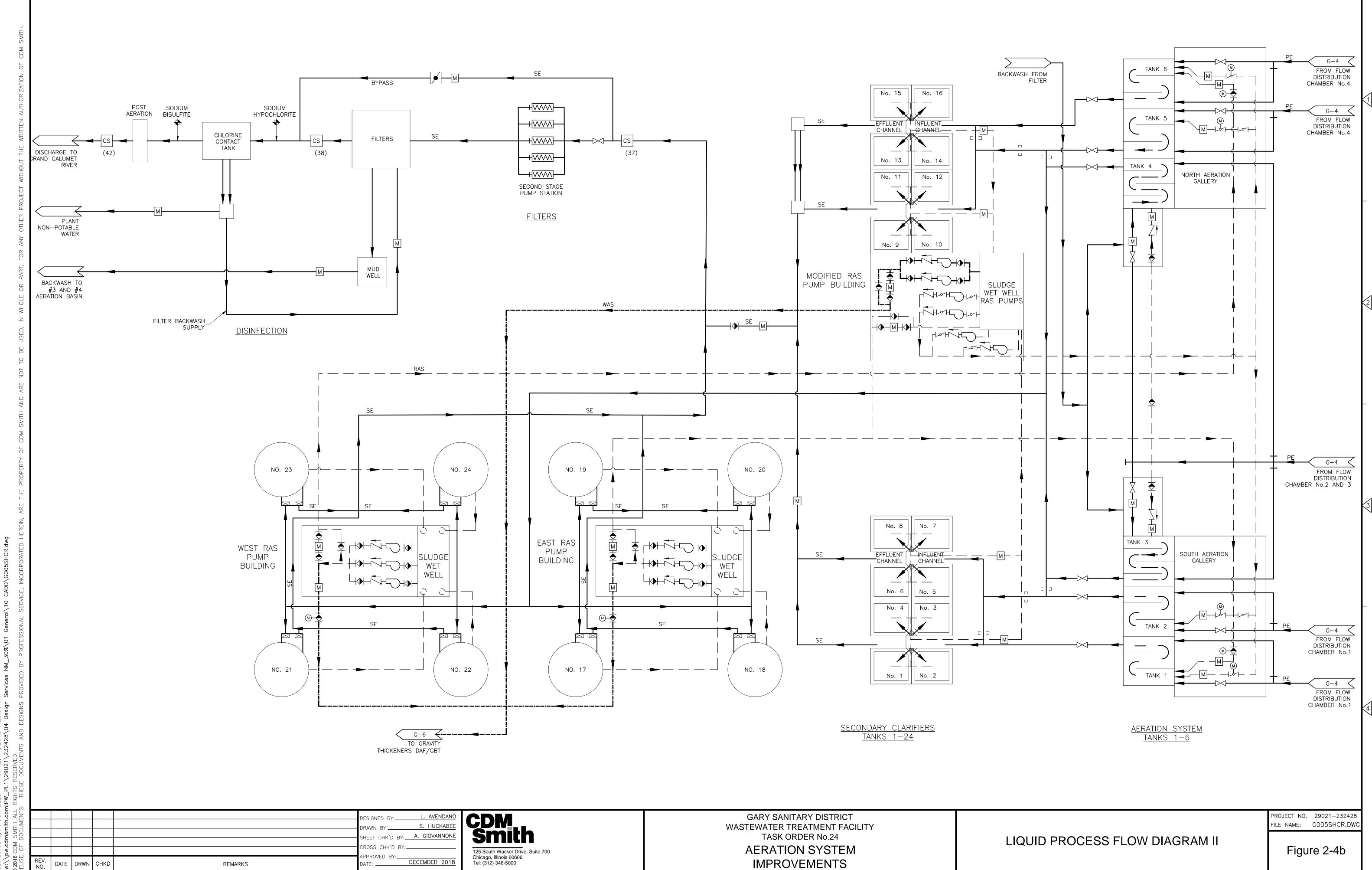
FIGURES

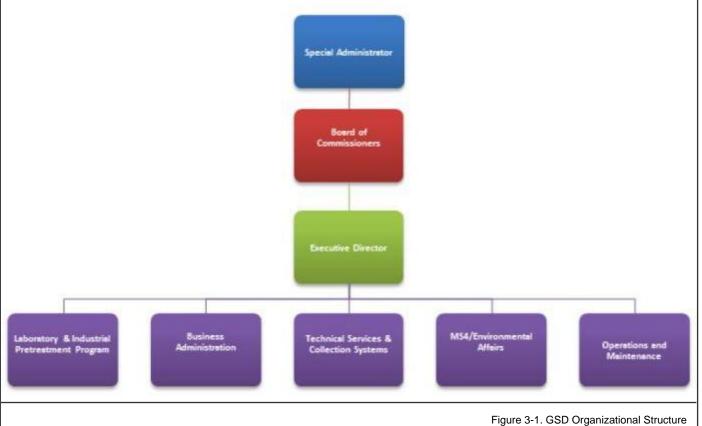












3D Organizational Structure

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 1 – NPDES PERMIT



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Eric J. Holcomb

Governor

Bruno Pigott Commissioner

VIA ELECTRONIC MAIL

June 23, 2017

Mr. Daniel F. Vicari, P.E., BCEE, Executive Director Gary Sanitary District 3600 West 3rd Avenue Gary, Indiana 46406

Dear Mr. Vicari:

Re: Final NPDES Permit No. IN0022977
Gary Sanitary District Wastewater Treatment Plant
Lake County

Your application for a National Pollutant Discharge Elimination System (NPDES) permit has been processed in accordance with Sections 402 and 405 of the Federal Water Pollution Control Act as amended, (33 U.S.C. 1251, et seq.), and IDEM's permitting authority under IC 13-15. The enclosed NPDES permit covers your discharges to the East Branch Grand Calumet River. All discharges from this facility shall be consistent with the terms and conditions of this permit.

One condition of your permit requires monthly reporting of several effluent parameters. You are required to submit both federal discharge monitoring reports (DMRs) and state Monthly Reports of Operation (MROs) on a routine basis. The MRO form is available on the internet at the following web site: http://www.in.gov/idem/cleanwater/2396.htm.

Once you are on this page, select the "IDEM Forms" page and locate the version of the MRO applicable to your plant under the "Wastewater Facilities" heading. We recommend selecting the "XLS" version as it will complete all of the calculations on the data entered.

All NPDES permit holders are required to submit their monitoring data to IDEM using NetDMR. Please contact Rose McDaniel at (317) 233-2653 or Helen Demmings (317) 232-8815 if you would like more information on NetDMR. Information is also available on our website at http://IN.gov/idem/cleanwater/2422.htm.

Another condition which needs to be clearly understood concerns violation of the effluent limitations in the permit. Exceeding the limitations constitutes a violation of the permit and may bring criminal or civil penalties upon the permittee. (See Part II.A.1 and II.A.11 of this permit). It is very important that your office and treatment operator understand this part of the permit.

Please note that this permit issuance can be appealed. An appeal must be filed under procedures outlined in IC 13-15-6, IC 4-21.5, and the enclosed public notice. The appeal must be initiated by filing a petition for administrative review with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the emailing of an electronic copy of this letter or within eighteen (18) days of the mailing of this letter by filing at the following addresses:



Mr. Daniel F. Vicari, P.E., BCEE, Executive Director Page 2 of 2

Director

Office of Environmental Adjudication

Indiana Government Center North

Room 501

100 North Senate Avenue Indianapolis, Indiana 46204

Commissioner

Indiana Department of Environmental Management

Indiana Government Center North

Room 1301

100 North Senate Avenue Indianapolis, Indiana 46204

The permit should be read and studied. It requires certain action at specific times by you, the discharger, or your authorized representative. One copy of this permit is also being sent to your operator to be kept at the treatment facility. You may wish to call this permit to the attention of your consulting engineer and/or attorney.

If you have any questions concerning your NPDES permit, please contact Jerry Dittmer at 317/233-0469 or jdittmer@idem.IN.gov. Questions concerning appeal procedures should be directed to the Office of Environmental Adjudication, at 317/232-8591.

Sincerely,

Paul Novak, Chief Permits Branch

Office of Water Quality

Pal North

Enclosures

cc:

Honorable Karen Freeman-Wilson, Mayor, City of Gary Michele Gray, Certified Operator, Gary Sanitary District

Bob Theodorou, Gary Sanitary District

U.S. EPA, Region 5

STATE OF INDIANA

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq., the "Act"), Title 13 of the Indiana Code, and regulations adopted by the Water Pollution Control Board, the Indiana Department of Environmental Management (IDEM) is issuing this permit to

GARY SANITARY DISTRICT

District Wastewater Treatment Plant, a major municipal facility located at 3600 West 3rd Avenue, Gary, Lake County, Indiana. The permittee is hereby authorized to discharge from the outfalls identified in Part I of this permit to receiving waters named the East Branch Grand Calumet River, located within the Lake Michigan drainage basin, in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in the permit. The permittee is also authorized to discharge from combined sewer overflow outfalls listed in Attachment A of this permit, to receiving waters named the East Branch Grand Calumet River and the West Branch Little Calumet River in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit. This permit may be revoked for the nonpayment of applicable fees in accordance with IC 13-18-20.

Effective Date:	July 1, 2017	·
Expiration Date:	June 30, 2022	

In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and application forms as are required by the Indiana Department of Environmental Management. The application shall be submitted to IDEM at least 180 days prior to the expiration date of this permit, unless a later date is allowed by the Commissioner in accordance with 327 IAC 5-3-2 and Part II.A.4 of this permit.

Issued June 23, 2017, for the Indiana Department of Environmental Management.

Paul Novak, Chief Permits Branch

Office of Water Quality

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TREATMENT FACILITY DESCRIPTION

The permittee currently operates a Class IV, 60 MGD single stage activated sludge wastewater treatment facility consisting of a trash rack, four mechanical bar screens, two grit tanks, two cyclone de-gritters, two wet wells, ten primary sedimentation tanks with scum collection systems, six aeration basins, twenty-four secondary clarifiers, phosphorus removal facilities, ten two-cell single media sand filters with mud wells, chlorination/dechlorination facilities, and influent and effluent flow meters. Sludge handling includes gravity thickeners, anaerobic digestion and belt filter presses. Final solids are disposed of via landfill.

The collection system is comprised of combined sanitary and storm sewers with twelve (12) Combined Sewer Overflow (CSO) locations. The CSO locations have have been identified and permitted with provisions in Attachment A of the permit.

The mass limits for CBOD₅, TSS, ammonia-nitrogen, and total residual chlorine have been calculated utilizing the peak design flow of 120 MGD. This is to facilitate the maximization of flow through the treatment facility in accordance with this Office's CSO policy.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from the outfalls listed below in accordance with the terms and conditions of this permit. The permittee shall take samples and measurements at a location representative of each discharge to determine whether the effluent limitations have been met. Refer to Part I.B of this permit for additional monitoring and reporting requirements.

1. Beginning on the effective date of this permit, the permittee is authorized to discharge from Outfalls 001A and 001B, adjacent outfalls located at Latitude: 41° 36'29" N, Longitude: 87° 23'19" W. The discharge is subject to the following requirements:

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	Quantity or Loading		Quality or Concentration			Monitoring Requirements		
<u>Parameter</u>	Monthly Average	Weekly Average	<u>Units</u>	Monthly Average	Weekly Average	<u>Units</u>	Measurement <u>Frequency</u>	Sample Type
Flow [1] CBOD ₅	Report		MGD				Daily	24-Hr. Total
Summer[2]	5,007	7,511	lbs/day	5.0	7.5	mg/l	Daily	24-Hr. Composite
Winter [3]	8,812	13,218	lbs/day	8.8	13.2	mg/l	Daily	24-Hr. Composite
TSS								
Summer [2]	6,008	9,013	lbs/day	6.0	9.0	mg/l	Daily	24-Hr. Composite
Winter [3]	9,613	14,420	lbs/day	9.6	14.4	mg/l	Daily	24-Hr. Composite
Phosphorus [4]				1.0		mg/l	Daily	24-Hr. Composite

TABLE 2

	Quality or	Concentra	ation		Monitoring Requirements		
<u>Parameter</u>	Daily <u>Minimum</u>	Monthly Average	Daily <u>Maximun</u>	n <u>Units</u>	Measurement Frequency	Sample <u>Type</u>	
pH [5] Dissolved Oxygen [6]	6.0		9.0	s.u.	Daily	Grab	
Summer [2]	6.0			mg/l	Daily	12 Grabs/24-Hrs.	
Winter [3]	5.0			mg/l	Daily	12 Grabs/24-Hrs.	
Oil & Grease			10	mg/l	5 X weekly	Grab	
E. coli [7]		125 [8]	235 [9] c	fu/100 ml	Daily	Grab	

TABLE 3

	Quantity (or Loading		Quality or	Concentra	tion	Monitoring Rec	quirements
<u>Parameter</u>	Monthly Average	Daily <u>Maximum</u>	<u>Units</u>	Monthly Average	Daily <u>Maximum</u>	<u>Units</u>	Measurement <u>Frequency</u>	Sample <u>Type</u>
Ammonia-nitrogen								
Summer [2]	1,001	2,333	lbs/day	1.00	2.33	mg/l	Daily	24-Hr. Composite
Winter [3]	1,132	2,634	lbs/day	1.13	2.63	mg/l	Daily	24-Hr. Composite
Total Residual Chlorine [10]		•			•	•	-
Final Effluent[11]	8	18	lbs/day	0.008	0.018	mg/l	Daily	Grab
Whole Effluent Toxicity	[12]		-			C	•	
Acute					1.0	TUa	2 X Annually	24-Hr. Composite
Chronic				2.0		TUc	2 X Annually	24-Hr. Composite

- [1] Effluent flow measurement is required per 327 IAC 5-2-13. The flow meter(s) shall be calibrated at least once every twelve months.
- [2] Summer limitations apply from May 1 through November 30 of each year.
- [3] Winter limitations apply from December 1 through April 30 of each year.
- [4] In accordance with 327 IAC 5-10-2(b), the facility must produce an effluent containing no more than 1.0 mg/l total phosphorus (P) any month that the average phosphorus level in the raw sewage is greater than 5 mg/l. Otherwise, a degree of reduction, as prescribed below, must be achieved. Such reduction is to be calculated based on monthly average raw and final concentrations.

Phosphorus (P) Level	Required
in Raw Sewage (mg/l)	Removal (%)
greater than or equal to 4	80%
less than 4, greater than or equal to 3	75%
less than 3, greater than or equal to 2	70%
less than 2, greater than or equal to 1	65%

less than 1 60%

- [5] If the permittee collects more than one grab sample on a given day for pH, the values shall not be averaged for reporting daily maximums or daily minimums. The permittee must report the individual minimum and the individual maximum pH value of any sample during the month on the Monthly Report of Operation forms.
- [6] The daily minimum concentration of dissolved oxygen in the effluent shall be reported as the arithmetic mean determined by summation of the twelve (12) daily grab sample results divided by the number of daily grab samples. These samples are to be collected over equal time intervals.
- [7] The *Escherichia coli (E. coli)* limitations apply from April 1 through October 31 annually. IDEM has specified the following methods as allowable for the detection and enumeration of *Escherichia coli (E. coli)*:
 - 1. Coliscan MF® Method
 - 2. EPA Method 1603 Modified m-TEC agar
 - 3. mColi Blue-24®
 - 4. Colilert® MPN Method or Colilert-18® MPN Method
- [8] The monthly average *E. coli* value shall be calculated as a geometric mean. Per 327 IAC 5-10-6, the concentration of *E. coli* shall not exceed one hundred twenty-five (125) cfu or mpn per 100 milliliters as a geometric mean of the effluent samples taken in a calendar month. No samples may be excluded when calculating the monthly geometric mean.
- [9] If less than ten samples are taken and analyzed for *E. coli* in a calendar month, no samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. However, when ten (10) or more samples are taken and analyzed for *E. coli* in a calendar month, not more than ten percent (10%) of those samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. When calculating ten percent, the result must not be rounded up. In reporting for compliance purposes on the Discharge Monitoring Report (DMR) form, the permittee shall record the highest non-excluded value for the daily maximum.
- [10] The effluent shall be disinfected on a continuous basis such that violations of the applicable bacteriological limitations for *E. coli* do not occur from April 1 through October 31, annually. If the permittee uses chlorine for any reason, at any time including the period from November 1 through March 31, then the limits and monitoring requirements in Table 3 for Total Residual Chlorine (TRC) shall be in effect whenever chlorine is used.
- [11] The monthly average Water Quality-Based Effluent Limit (WQBEL) for total residual chlorine is less than the Limit of Quantitation (LOQ) as specified below. Compliance with the total residual chlorine concentration limitations will be demonstrated if the monthly average effluent level is less than or equal to the monthly average WQBEL. For the purpose of calculating the monthly average value, the daily effluent values that are less than the LOQ may be assigned a value of zero (0), unless, after considering the number of monitoring results that are greater than the Limit of Detection (LOD), and applying appropriate statistical techniques, a value other than zero (0) is warranted.

The daily maximum WQBEL for total residual chlorine is greater than or equal to the LOD value, but less than the LOQ value specified in the permit. Compliance with this effluent limitation will be demonstrated if the measured daily effluent concentrations are less than the LOQ. For daily maximum mass limitations based on WQBELs which are less than the LOQ value, compliance with the daily maximum mass value is based on the LOQ value. Compliance with the daily maximum mass value will be demonstrated if the calculated mass value is less than **60.1 lbs/day**.

At present, two methods are acceptable to IDEM measure total residual chlorine: amperometric and DPD colorimetric methods.

<u>Parameter</u>	<u>LOD</u>	LOQ	
Chlorine	0.02 mg/l	0.06 mg/l	

Case-Specific MDL

The permittee may determine a case-specific Method Detection Level (MDL) using the analytical method specified above. The MDL shall be derived by the procedure specified for MDLs contained in 40 CFR Part 136, Appendix B, and the limit of quantitation shall be set equal to 3.18 times the MDL. Other methods may be used if first approved by the U.S. EPA and IDEM.

[12] Please refer to Part I.D of this permit for Whole Effluent Toxicity requirements. The permittee is to report the more stringent of the results for the two test species (Fathead Minnow or *Ceriodaphnia dubia*) on the Discharge Monitoring Report forms. Please note that complete Whole Effluent Toxicity reports are required to be submitted to this Office's Compliance Data Section. In the event that the permittee is required to implement a toxicity reduction evaluation (TRE), WET monitoring frequencies will revert to the schedule outlined in Part I.D.2.e.

2. Minimum Narrative Limitations

At all times the discharge from any and all point sources specified within this permit shall not cause receiving waters:

- a. including the mixing zone, to contain substances, materials, floating debris, oil, scum or other pollutants:
 - (1) that will settle to form putrescent or otherwise objectionable deposits;
 - (2) that are in amounts sufficient to be unsightly or deleterious;
 - (3) that produce color, visible oil sheen, odor, or other conditions in such degree as to create a nuisance;
 - (4) which are in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill

- aquatic life, other animals, plants, or humans;
- (5) which are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.
- b. outside the mixing zone, to contain substances in concentrations which on the basis of available scientific data are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants.

3. Additional Discharge Limitations and Monitoring Requirements

Beginning on the effective date of the permit, the effluent from Outfalls 001A and 001B shall be limited and monitored by the permittee as follows:

TABLE 4

	Quantity Monthly	or Loading Daily		Quality of Monthly	r Concentratio Daily	n	Monitoring Req Measurement	uirements Sample
<u>Parameter</u>	<u>Average</u>	<u>Maximum</u>	<u>Units</u>	<u>Average</u>	<u>Maximum</u>	<u>Units</u>	Frequency	<u>Type</u>
Arsenic [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Cadmium [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Chromium [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Copper [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Cyanide [1]		Report	lbs/day		Report	mg/l	Quarterly	See [2] Below
Lead [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Mercury [1][3]								
WQBELs [4]	0.00065	0.0016	lbs/day	1.3	3.16	ng/l	6 X Annually	Grab
SMV Interim Discha	rge		·			_	-	
Limit [5]				1.8 [6]	Report	ng/l	6 X Annually	Grab
Nickel [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Zinc [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Phenols (4AAP)[1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Chloride [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Sulfate [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.
Fluoride [1]		Report	lbs/day		Report	mg/l	Quarterly	24 Hr. Comp.

Note: For measurement frequencies less than once per month, the permittee shall report the result from the monitoring period on the Discharge Monitoring Report (DMR) for the final month of the reporting timeframe, beginning with January of each year. For example, for quarterly monitoring, the permittee may conduct sampling within the month of January, February or March. The result from this reporting timeframe shall be reported on the March DMR, regardless of which of the months within the quarter the sample was taken.

[1] The permittee shall measure and report this parameter as Total Recoverable Metal. Cyanide shall be reported as Free Cyanide or Cyanide Amenable to Chlorination.

The following EPA test methods and/or Standard Methods and associated Limits of Detection (LODs) and Limits of Quantitation (LOQs) are recommended for use in the analysis of the effluent samples. Alternative 40 CFR 136 approved methods may be used provided the LOD is less than the monthly average and/or daily maximum effluent limitations.

The permittee may determine a case-specific Method Detection Level (MDL) using one of the analytical methods specified below, or any other test method which is approved by IDEM prior to use. The MDL shall be derived by the procedure specified for MDLs contained in 40 CFR Part 136, Appendix B, and the limit of quantitation shall be set equal to 3.18 times the MDL. NOTE: The MDL for purposes of this document, is synonymous with the "limit of detection" or "LOD" as defined in 327 IAC 5-1.5-26: "the minimum concentration of a substance that can be measured and reported with ninety-nine percent (99%) confidence that the analyte concentration is greater than zero (0) for a particular analytical method and sample matrix".

<u>Parameter</u>	EPA/Standard Method	<u>LOD</u>	LOQ
Arsenic	3113 B	1.0 ug/l	3.2 ug/l
Cadmium	3113 B	0.1 ug/l	0.32 ug/l
Chromium	3111 C or 3113 B	2.0 ug/l	6.4 ug/l
Copper	3113 B	1.0 ug/l	3.2 ug/l
Cyanide, Free	1677	0.5 ug/l	1.6 ug/l
Iron	3113 B	1.0 ug/l	3.2 ug/l
Lead	3113 B	1.0 ug/l	3.2 ug/l
Mercury	1631, Revision E	0.2 ng/l	0.5 ng/l
Nickel	3113 B	1.0 ug/l	3.2 ug/l
Zinc	200.7, Revision 4.4	2.0 ug/l	6.4 ug/l
	or 3120 B	-	
Phenols, Total (4AAP)	420.2	0.6 ug/l	2 ug/l
Chloride	4500 Cl-E	1000 ug/l	3200 ug/l
Sulfate	375.2, Revision 2.0	3000 ug/l	9500 ug/l
Fluoride	340.3 4500-F C	16 ug/l	50 ug/l

[2] The maximum holding time is 24 hours when sulfide is present. Therefore, initially the CN sample should be a grab sample that is tested with lead acetate paper before pH adjustments in order to determine if sulfide is present. If sulfide is present, it can be removed by the addition of cadmium nitrate powder until a negative spot test is obtained. The sample is filtered and then NaOH is added to pH 12. The sample may then be analyzed within 14 days. Alternatively, if the permittee can demonstrate that the wastewater contains no sulfide, the permittee may collect a composite sample and analyze it within 14 days.

[3] Mercury monitoring shall be conducted six times annually (i.e. every other month) for the term of the permit. Monitoring shall be conducted in the months of February, April, June, August, October, and December of each year. Mercury monitoring and analysis will be performed using EPA Test Method 1631, Revision E. If Method 1631, Revision E is further revised during the term of this permit, the permittee and/or its contract laboratory is required to utilize the most current version of the method immediately after approval by EPA.

The permittee shall measure and report this parameter as <u>total recoverable</u> metal.

- [4] The permittee applied for, and received, a variance from the water quality criterion used to establish the referenced mercury WQBELs under the streamlined mercury variance (SMV) procedures of 327 IAC 5-3.5. Compliance with the interim discharge limit will demonstrate compliance with this permit.
- [5] For the term of the NPDES permit, the permittee is subject to the interim discharge limit developed under the provisions of 327 IAC 5-3.5-8. Each reporting period (i.e., bi-monthly), the permittee shall report both a daily value and an annual average value for mercury. The annual average discharge value is to be calculated as the average of the measured effluent daily values for mercury over the most recent (rolling) twelve-month period. Compliance with the interim discharge limit will be achieved when the annual average discharge value for the most recent twelve-month period is less than the interim discharge limit.
- [6] Annual average for the purpose of the mercury interim discharge limit.

4. Additional Monitoring Requirements

Beginning on the effective date of this permit, the permittee shall conduct the following monitoring activities:

a. Influent Monitoring

In addition to the requirements contained in Part I.B.2 of the NPDES permit, the permittee shall monitor the influent to its wastewater treatment facility for the following pollutants. Samples shall be representative of the raw influent in accordance with 327 IAC 5-2-13(b).

TABLE 5

	Quality or Co	oncentration	Monitoring Requirements		
	Monthly	Daily		Measurement	Sample
<u>Parameter</u>	<u>Average</u>	<u>Maximum</u>	<u>Unit</u>	<u>Frequency</u>	<u>Type</u>
Arsenic		Report	mg/l	Quarterly	24 Hr. Comp.
			·		
Cadmium [1]		Report	mg/l	Quartely	24 Hr. Comp.
Chromium [1]		Report	mg/l	Quarterly	24 Hr. Comp.
Copper [1]		Report	mg/l	Quarterly	24 Hr. Comp.
Cyanide [1]		Report	mg/l	Quarterly	See [2] Below
Iron [1]		Report	mg/l	Quarterly	24 Hr. Comp.
Lead [1]		Report	mg/l	Quarterly	24 Hr. Comp.
Mercury [1][3]		Report	ng/l	6 X Annually	Grab
Nickel [1]		Report	mg/l	Quarterly	24 Hr. Comp.
Zinc [1]		Report	mg/l	Quarterly	24 Hr. Comp.
Phenols (4AAP)		Report	mg/l	Quarterly	24 Hr. Comp.
Chloride		Report	mg/l	Quarterly	24 Hr. Comp.
Sulfate		Report	mg/l	Quarterly	24 Hr. Comp.
Fluoride		Report	mg/l	Quarterly	24 Hr. Comp.

Note: For measurement frequencies less than once per month, the permittee shall report the result from the monitoring period on the Discharge Monitoring Report (DMR) for the final month of the reporting timeframe, beginning with January of each year. For example, for quarterly monitoring, the permittee may conduct sampling within the month of January, February or March. The result from this reporting timeframe shall be reported on the March DMR, regardless of which of the months within the quarter the sample was taken.

- [1] The permittee shall measure and report this parameter as Total Recoverable Metal. Cyanide shall be reported as Free Cyanide or Cyanide Amenable to Chlorination.
- [2] The maximum holding time is 24 hours when sulfide is present. Therefore, initially the CN sample should be a grab sample that is tested with lead acetate paper before pH adjustments in order to determine if sulfide is present. If sulfide is present, it can be removed by the addition of cadmium nitrate powder until a negative spot test is obtained. The sample is filtered and then NaOH is added to pH 12. The sample may then be analyzed within 14 days. Alternatively, if the permittee can demonstrate that the wastewater contains no sulfide, the permittee may collect a composite sample and analyze it within 14 days.
- [3] Mercury monitoring shall be conducted six times annually (i.e. every other month) for the term of the permit. Monitoring shall be conducted in the months of February, April, June, August, October, and December of each year. Mercury monitoring and analysis will be performed using EPA Test Method 1631, Revision E. If Method 1631, Revision E is further revised during the term of this permit, the permittee and/or its contract laboratory is required to utilize the most current version of the method immediately after approval by EPA.

b. Priority Pollutants Monitoring

The permittee shall conduct an annual inventory of priority pollutants (see 40 CFR 423, Appendix A) and shall identify and quantify additional organic compounds which occur in the influent, effluent, and sludge. The analytical report shall be sent to the Pretreatment Group. This report is due in December of each year. The inventory shall consist of:

(1) Sampling and Analysis of Influent and Effluent

Sampling shall be conducted on a day when industrial discharges are occurring at normal or maximum levels. The samples shall be 24-hour flow proportional composites, except for volatile organics, which shall be taken by appropriate grab sampling techniques. Analysis for the U.S. EPA organic priority pollutants shall be performed using U.S. EPA methods 624, 625 and 608 in 40 CFR 136, or other equivalent methods approved by U.S. EPA. Equivalent methods must be at least as sensitive and specific as methods 624, 625 and 608.

All samples must be collected, preserved and stored in accordance with 40 CFR 136, Appendix A. Samples for volatile organics must be analyzed within 14 days of collection. Samples for semivolatile organics, PCBs and pesticides must be extracted within 7 days of collection and analyzed within 40 days of extraction. For composite samples, the collection date shall be the date at the end of the daily collection period.

(2) Sampling and Analysis of Sludge

Sampling collection, storage, and analysis shall conform to the U.S. EPA recommended procedures in accordance with 40 CFR 503. Special sampling and/or preservation techniques will be required for those pollutants which deteriorate rapidly.

Sludge samples for volatile organics must be analyzed within 14 days of collection. Sludge samples for semivolatile organics, PCBs and pesticides must be extracted within 14 days of collection and analyzed within 40 days of extraction.

(3) Additional Pollutant Identification

In addition to the priority organic pollutants, a reasonable attempt shall be made to identify and quantify the ten most abundant constituents of each fraction (excluding priority pollutants and unsubstituted aliphatic compounds) shown to be present by peaks on the total ion plots (reconstructed gas chromatograms) more than ten times higher than the adjacent background noise. Identification shall be attempted through the use of U.S. EPA/NIH computerized library of mass spectra, with visual confirmation by an experienced analyst. Quantification may be based on an order of magnitude estimate based upon comparison with an internal standard.

The annual pretreatment program report, required by Part III.A.7. of this permit, should identify the additional steps necessary to determine whether the pollutants that

are present interfere, pass through, or otherwise violate 40 CFR 403.2. Upon such determination, the report must also identify the steps taken to develop and enforce local limitations on industrial discharges for those pollutants. This is a requirement of 40 CFR 403.5.

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge flow and shall be taken at times which reflect the full range and concentration of effluent parameters normally expected to be present. Samples shall not be taken at times to avoid showing elevated levels of any parameters.

2. Data on Plant Operation

The raw influent and the wastewater from intermediate unit treatment processes, as well as the final effluent shall be sampled and analyzed for the pollutants and operational parameters specified by the applicable Monthly Report of Operation Form, as appropriate, in accordance with 327 IAC 5-2-13. Except where the permit specifically states otherwise, the sample frequency for the raw influent and intermediate unit treatment process shall be at a minimum the same frequency as that for the final effluent. The measurement frequencies specified in each of the tables in Part I.A. are the minimum frequencies required by this permit.

3. Monthly Reporting

The permittee shall submit accurate monitoring reports to the Indiana Department of Environmental Management containing results obtained during the previous monitoring period and shall be submitted no later than the 28th day of the month following each completed monitoring period. The first report shall be submitted by the 28th day of the month following the monitoring period in which the permit becomes effective. These reports shall include, but not necessarily be limited to, the Discharge Monitoring Report (DMR) and the Monthly Report of Operation (MRO). Permittees with metals monitoring requirements shall also complete and submit the Indiana Monthly Monitoring Report Form (MMR-State Form 30530) to report their influent and/or effluent data for metals and other toxics. Permittees with combined sewer overflow discharges must also submit the CSO Monthly Report of Operation to IDEM by the 28th day of the month following each completed monitoring period. All reports shall be submitted electronically by using the NetDMR application, upon registration, receipt of the NetDMR Subscriber Agreement, and IDEM approval of the proposed NetDMR Signatory. The NetDMR website (for initial registration and monthly DMR/MMR submittal) is: https://netdmr.epa.gov/netdmr/public/home.htm. The Regional Administrator may request the permittee to submit monitoring reports to the Environmental Protection Agency if it is deemed necessary to assure compliance with the permit.

A calendar week will begin on Sunday and end on Saturday. Partial weeks consisting of four or more days at the end of any month will include the remaining days of the week, which occur in the following month in order to calculate a consecutive seven-day average. This value will be reported as a weekly average or seven-day average on the MRO for the month containing the partial week of four or more days. Partial calendar weeks consisting of less than four days at the end of any month will be carried forward to the succeeding month and reported as a weekly average or a seven-day average for the calendar week that ends with the first Saturday of that month.

4. <u>Definitions</u>

a. Calculation of Averages

Pursuant to 327 IAC 5-2-11(a)(5), the calculation of the average of discharge data shall be determined as follows: For all parameters except fecal coliform and *E. coli*, calculations that require averaging of sample analyses or measurements of daily discharges shall use an arithmetic mean unless otherwise specified in this permit. For fecal coliform, the monthly average discharge and weekly average discharge, as concentrations, shall be calculated as a geometric mean. For *E. coli*, the monthly average discharge, as a concentration, shall be calculated as a geometric mean.

b. Terms

- (1) "Monthly Average" -The monthly average discharge means the total mass or flow-weighted concentration of all daily discharges during a calendar month on which daily discharges are sampled or measured, divided by the number of daily discharges sampled and/or measured during such calendar month. The monthly average discharge limitation is the highest allowable average monthly discharge for any calendar month.
- (2) "Weekly Average" The weekly average discharge means the total mass or flow weighted concentration of all daily discharges during any calendar week for which daily discharges are sampled or measured, divided by the number of daily discharges sampled and/or measured during such calendar week. The average weekly discharge limitation is the maximum allowable average weekly discharge for any calendar week.
- (3) "Daily Maximum" The daily maximum discharge limitation is the maximum allowable daily discharge for any calendar day. The "daily discharge" means the total mass of a pollutant discharged during the calendar day or, in the case of a pollutant limited in terms other than mass pursuant to 327 IAC 5-2-11(e), the average concentration or other measurement of the pollutant specified over the calendar day or any twenty-four hour period that represents the calendar day for purposes of sampling.

- (4) "24-hour Composite" A 24-hour composite sample consists of at least twelve (12) individual flow-proportioned samples of wastewater, taken by the grab sample method over equal time intervals during the period of operator attendance or by an automatic sampler, and which are combined prior to analysis. A flow proportioned composite sample shall be obtained by:
 - (a) recording the discharge flow rate at the time each individual sample is taken,
 - (b) adding together the discharge flow rates recorded from each individual sampling time to formulate the "total flow value,"
 - (c) dividing the discharge flow rate of each individual sampling time by the total flow value to determine its percentage of the total flow value, and
 - (d)multiplying the volume of the total composite sample by each individual sample's percentage to determine the volume of that individual sample which will be included in the total composite sample.

Alternatively, a 24-hour composite sample may be obtained by an automatic sampler on an equal time interval basis over a twenty-four hour period provided that a minimum of 24 samples are taken and combined prior to analysis. The samples do not need to be flow-proportioned if the permittee collects samples in this manner.

- (5) CBOD₅: Five-day Carbonaceous Biochemical Oxygen Demand
- (6) TSS: Total Suspended Solids
- (7) E. coli: Escherichia coli bacteria
- (8) The "Regional Administrator" is defined as the Region V Administrator, U.S. EPA, located at 77 West Jackson Boulevard, Chicago, Illinois 60604.
- (9) The "Commissioner" is defined as the Commissioner of the Indiana Department of Environmental Management, located at the following address: 100 North Senate Avenue, Indianapolis, Indiana 46204-2251.
- (10)Limit of Detection or LOD is defined as a measurement of the concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero (0) for a particular analytical method and sample matrix. The LOD is equivalent to the Method Detection Level or MDL.
- (11)Limit of Quantitation or LOQ is defined as a measurement of the concentration of a contaminant obtained by using a specified laboratory procedure calibrated at a specified concentration above the method detection level. It is considered the lowest concentration at which a particular contaminant can be quantitatively measured using a specified laboratory procedure for monitoring of the

contaminant. This term is also called the limit of quantification or quantification level.

(12)Method Detection Level or MDL is defined as the minimum concentration of an analyte (substance) that can be measured and reported with a ninety-nine percent (99%) confidence that the analyte concentration is greater than zero (0) as determined by the procedure set forth in 40 CFR Part 136, Appendix B. The method detection level or MDL is equivalent to the LOD.

5. <u>Test Procedures</u>

The analytical and sampling methods used shall conform to the current version of 40 CFR, Part 136, unless otherwise specified within this permit. Multiple editions of Standard Methods for the Examination of Water and Wastewater are currently approved for most methods, however, 40 CFR Part 136 should be checked to ascertain if a particular method is approved for a particular analyte. The approved methods may be included in the texts listed below. However, different but equivalent methods are allowable if they receive the prior written approval of the State agency and the U.S. Environmental Protection Agency.

- a. <u>Standard Methods for the Examination of Water and Wastewater</u> 18th, 19th, or 20th Editions, 1992, 1995 or 1998 American Public Health Association, Washington, D.C. 20005.
- b. A.S.T.M. Standards, Part 23, Water; Atmospheric Analysis 1972 American Society for Testing and Materials, Philadelphia, PA 19103.
- c. <u>Methods for Chemical Analysis of Water and Wastes</u> June 1974, Revised, March 1983, Environmental Protection Agency, Water Quality Office, Analytical Quality Control Laboratory, 1014 Broadway, Cincinnati, OH 45202.

6. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record and maintain records of all monitoring information and monitoring activities under this permit, including the following information:

- a. The exact place, date, and time of sampling or measurements;
- b. The person(s) who performed the sampling or measurements;
- c. The dates and times the analyses were performed;
- d. The person(s) who performed the analyses;

- e. The analytical techniques or methods used; and
- f. The results of all required analyses and measurements.

7. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monthly Discharge Monitoring Report and on the Monthly Report of Operation form. Such increased frequency shall also be indicated on these forms. Any such additional monitoring data which indicates a violation of a permit limitation shall be followed up by the permittee, whenever feasible, with a monitoring sample obtained and analyzed pursuant to approved analytical methods. The results of the follow-up sample shall be reported to the Commissioner in the Monthly Discharge Monitoring Report.

8. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years. In cases where the original records are kept at another location, a copy of all such records shall be kept at the permitted facility. The three-year period shall be extended:

- a. automatically during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or regarding promulgated effluent guidelines applicable to the permittee; or
- b. as requested by the Regional Administrator or the Indiana Department of Environmental Management.

9. Discharge Monitoring Reports

- a. For parameters with monthly average Water Quality-Based Effluent Limitations (WQBELs) below the Limit of Quantitation (LOQ), daily effluent values that are less than the LOQ, used to determine the monthly average effluent levels less than the LOQ, may be assigned a value of zero (0), unless, after considering the number of monitoring results that are greater than the Limit of Detection (LOD), and applying appropriate statistical techniques, a value other than zero (0) is warranted.
- b. For all other parameters for which the monthly average WQBEL is equal to or greater than the LOQ, calculations that require averaging of measurements of daily values (both concentration and mass) shall use an arithmetic mean. When a daily discharge

value is below the LOQ, a value of zero (0) shall be used for that value in the calculation to determine the monthly average unless otherwise specified or approved by the Commissioner.

- c. Effluent concentrations less than the LOD shall be reported on the Discharge Monitoring Report (DMR) forms as < (less than) the value of the LOD. For example, if a substance is not detected at a concentration of 0.1 μ g/l, report the value as < 0.1 μ g/l.
- d. Effluent concentrations greater than or equal to the LOD and less than the LOQ that are reported on a DMR shall be reported as the actual value and annotated on the DMR to indicate the value is not quantifiable.
- e. Mass discharge values which are calculated from concentrations reported as less than the value of the limit of detection shall be reported as less than the corresponding mass value.
- f. Mass discharge values that are calculated from effluent concentrations greater than the limit of detection shall be reported as the calculated value.

C. REOPENING CLAUSES

In addition to the reopening clause provisions cited at 327 IAC 5-2-16, the following reopening clauses are incorporated into this permit:

- 1. This permit may be modified or, alternately, revoked and reissued after public notice and opportunity for hearing to incorporate effluent limitations reflecting the results of a wasteload allocation if the Department of Environmental Management determines that such effluent limitations are needed to assure that State Water Quality Standards are met in the receiving stream.
- 2. This permit may be modified due to a change in sludge disposal standards pursuant to Section 405(d) of the Clean Water Act, if the standards when promulgated contain different conditions, are otherwise more stringent, or control pollutants not addressed by this permit.
- 3. This permit may be modified, or, alternately, revoked and reissued, to comply with any applicable effluent limitation or standard issued or approved under section 301(b)(2)(C), (D) and (E), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent limitation or standard so issued or approved:
 - a. contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - b. controls any pollutant not limited in the permit.

- 4. This permit may be modified, or, alternately, revoked and reissued after public notice and opportunity for hearing to include revised SMV and/or PMPP requirements in the event that revisions to the SMV Requirements and Application Process under 327 IAC 5-3.5 occur.
- 5. This permit may be modified or, alternatively, revoked and reissued after public notice and opportunity for hearing to incorporate monitoring requirements and effluent limitations for arsenic, cadmium, chromium, copper, cyanide, iron, lead, nickel, zinc, phenols, chloride, sulfate, and/or fluoride if the Department of Environmental Management determines that such monitoring requirements and effluent limitations are needed to assure that State Water Quality standards are met in the receiving streams.
- 6. This permit may be modified, or alternately, revoked and reissued after public notice and opportunity for hearing to include limitations for specific toxicants if the results of the biomonitoring and/or the Toxicity Reduction Evaluation (TRE) study indicate that such limitations are necessary.
- 7. This permit may be modified, or alternately, revoked and reissued, after public notice and opportunity for hearing, to include a case-specific Method Detection Level (MDL). The permittee must demonstrate that such action is warranted in accordance with the procedure specified under Appendix B, 40 CFR Part 136, or approved by the Indiana Department of Environmental Management.
- 8. This permit may be modified or revoked and reissued after public notice and opportunity for hearing to include more stringent monitoring requirements or conditions if new information generated as a result of accelerated monitoring conducted in accordance with 327 IAC 5-2-11.6(h)(4), or special conditions included in the permit in accordance with 327 IAC 5-2-11.6(h)(5) indicates the likely presence of the pollutant in the discharge at levels above the Water Quality-Based Effluent Limit (WQBEL).

This permit may be modified or revoked and reissued after public notice and opportunity for hearing to specify the use of a different analytical method if a more sensitive analytical method has been specified in or approved under 40 CFR 136 or approved by the Commissioner to monitor for the presence and amount in the effluent of the pollutant for which the WQBEL is established. The permit shall specify, in accordance with 327 IAC 5-2-11.6(h)(2)(B), the LOD and LOQ that can be achieved by use of the specified analytical method.

D. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

The 1977 Clean Water Act explicitly states, in Section 101(3) that it is the <u>national policy</u> that the discharge of toxic pollutants in toxic amounts be prohibited. In support of this policy the U.S. EPA in 1995 amended the 40 CFR 136.3 (Tables IA and II) by adding testing methods for measuring acute and short-term chronic toxicity of whole effluents and receiving waters. To adequately assess the character of the effluent, and the effects of the effluent on aquatic life, the permittee shall conduct Whole Effluent Toxicity Testing. Part 1 of this section describes the testing procedures, Part 2 describes the Toxicity Reduction Evaluation which is only required if the effluent demonstrates toxicity, as described in paragraph f.

1. Whole Effluent Toxicity Tests

The permittee shall conduct the series of bioassay tests described below to monitor the toxicity of the discharge from Outfall 001A and 001B. When Outfall 001B is not in use, monitoring of Outfall 001A satisfies the requirements of this provision.

If toxicity is demonstrated as defined under paragraph f below, the permittee is required to conduct a Toxicity Reduction Evaluation (TRE).

a. Bioassay Test Procedures and Data Analysis

- (1) All test organisms, test procedures and quality assurance criteria used shall be in accordance with the Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms; Fourth Edition Section 13, Cladoceran (*Ceriodaphnia dubia*) Survival and Reproduction Test Method 1002.0; and Section 11, Fathead Minnow (*Pimephales promelas*) Larval Survival and Growth Test Method, (1000.0) EPA 821-R-02-013, October 2002, or most recent update.
- (2) Any circumstances not covered by the above methods, or that require deviation from the specified methods shall first be approved by the IDEM's Permits Branch Toxicologist.
- (3) The determination of effluent toxicity shall be made in accordance with the Data Analysis general procedures for chronic toxicity endpoints as outlined in Section 9, and in Sections 11 and 13 of the respective Test Method (1000.0 and 1002.0) of Short-term Methods of Estimating the Chronic Toxicity of Effluent and Receiving Water to Freshwater Organisms (EPA 821-R-02-013), Fourth Edition, October 2002 or most recent update.

b. Types of Bioassay Tests

(1) The permittee shall conduct a 7-day Cladoceran (*Ceriodaphnia dubia*) Survival and Reproduction Test and a 7-day Fathead Minnow (*Pimephales promelas*) Larval Survival and Growth Test on samples of the final effluent. All tests will be conducted on 24-hour composite samples of final effluent. All test solutions shall

be renewed daily. On days three and five fresh 24-hour composite samples of the effluent collected on alternate days shall be used to renew the test solutions.

(2) If in any control more than 10% of the test organisms die in 96 hours, or more than 20% of the test organisms die in 7 days, that test shall be repeated. In addition, if in the *Ceriodaphnia* test control the number of newborns produced per surviving female is less than 15, or if 60% of surviving control females have less than three broods; and in the fathead minnow test if the mean dry weight of surviving fish in the control group is less than 0.25 mg, that test shall also be repeated. Such testing will determine whether the effluent affects the survival, reproduction, and/or growth of the test organisms. Results of all tests regardless of completion must be reported to IDEM.

c. Effluent Sample Collection and Chemical Analysis

- (1) Samples for the purposes of Whole Effluent Toxicity Testing will be taken at a point that is representative of the discharge, but prior to discharge. The maximum holding time for whole effluent is 36 hours for a 24 hour composite sample. Bioassay tests must be started within 36 hours after termination of the 24 hour composite sample collection. Bioassay of effluent sampling may be coordinated with other permit sampling requirements as appropriate to avoid duplication.
- (2) Chemical analysis must accompany each effluent sample taken for bioassay test, especially the sample taken for the repeat or confirmation tests as outlined in paragraph f.3. The analysis detailed under Part I.A. should be conducted for the effluent sample. Chemical analysis must comply with approved EPA test methods.

d. Frequency and Duration

The toxicity tests specified in paragraph b. shall be conducted <u>once every six months</u> for the duration of the permit. The results of the toxicity tests are due within each six month period as calculated from the effective date of the permit.

If toxicity is demonstrated as defined under paragraph f(1), (2) or (3), the permittee is required to conduct a toxicity reduction evaluation (TRE) as specified in Section 2.

e. Reporting

(1) Results shall be reported according to EPA 821-R-02-013, Section 10 (Report Preparation). Two copies of the completed report for each test shall be submitted to the Compliance Data Section of the IDEM no later than sixty days after completion of the test. An electronic copy of the report may be submitted to wwreports@idem.IN.gov in lieu of the two copies to the Compliance Data Section

- (2) For quality control, the report shall include the results of appropriate standard reference toxic pollutant tests for chronic endpoints and historical reference toxic pollutant data with mean values and appropriate ranges for the respective test species *Ceriodaphnia dubia* and *Pimephales promelas*. Biomonitoring reports must also include copies of Chain-of-Custody Records and Laboratory raw data sheets.
- (3) Statistical procedures used to analyze and interpret toxicity data including critical values of significance used to evaluate each point of toxicity should be described and included as part of the biomonitoring report.

f. Demonstration of Toxicity

- (1) Acute toxicity will be demonstrated if the effluent is observed to have exceeded **1.0** TU_a(acute toxic units) based on 100% effluent for the test organism in 48 and 96 hours for *Ceriodaphnia dubia* or *Pimephales promelas*, which ever is more sensitive.
- (2) Chronic toxicity will be demonstrated if the effluent is observed to have exceeded **2.0** TUc TUc (chronic toxic units) for *Ceriodaphnia dubia* or *Pimephales promelas*.
- (3) If toxicity is found in any of the tests specified above, a confirmation toxicity test using the specified methodology and same test species shall be conducted within two weeks of receiving the chronic toxicity test results. During the sampling for any confirmation tests the permittee shall also collect and preserve sufficient effluent samples for use in any Toxicity Identification Evaluation (TIE) and/or Toxicity Reduction Evaluation (TRE), if necessary. If any two (2) consecutive tests, including any and all confirmation tests, indicate the presence of toxicity, the permittee must begin the implementation of a Toxicity Reduction Evaluation (TRE) as described below. The whole effluent toxicity tests required above may be suspended (upon approval from IDEM) while the TRE is being conducted.

g. Definitions

- (1)TU_c is defined as 100/NOEC or 100/IC₂₅.
- (2)TU_a is defined as 100/LC₅₀ where the LC₅₀ is expressed as a percent effluent in the test medium of an acute Whole Effluent Toxicity (WET) test that is statistically or graphically estimated to be lethal to fifty percent (50%) of the test organisms.
- (3) "Inhibition concentration 25" or "IC₂₅" means the toxicant (effluent) concentration that would cause a twenty-five percent (25%) reduction in a nonquantal biological measurement for the test population. For example, the IC₂₅ is the concentration of toxicant (effluent) that would cause a twenty-five percent (25%) reduction in mean young per female or in growth for the test population.

(4) "No observed effect concentration" or "NOEC" is the highest concentration of toxicant (effluent) to which organisms are exposed in a full life cycle or partial life cycle (short term) test, that causes no observable adverse effects on the test organisms, that is, the highest concentration of toxicant in which the values for the observed responses are not statistically significantly different from the controls.

2. <u>Toxicity Reduction Evaluation (TRE) Schedule of Compliance</u>

The development and implementation of a TRE (including any post-TRE biomonitoring requirements) is only required if toxicity is demonstrated as defined by Paragraph 1.f.

<u>Milestone Dates</u>: see sections a through e following for additional information on the TRE milestone dates.

Development and Submittal of	Within 90 days of two failed toxicity tests.
TRE Plan	
Initiate Effluent TRE	Within 30 days of TRE Plan submittal to
	IDEM.
Progress Reports	Every 90 days from the initiation date of
	the TRE.
Submit Final TRE Results	Within 90 days of the completion of the
	TRE, not to exceed 3 years from the date of
	the initial determination of toxicity (two
	failed toxicity tests).
Post-TRE Biomonitoring	Immediately upon completion of the TRE,
Requirements	conduct 3 consecutive months of toxicity
	tests, if no toxicity is shown, reduce
	toxicity tests to once every 6 months for
	the duration of the permit term. If post –
	TRE biomonitoring demonstrates toxicity,
	revert to implementation of a TRE.

a. Development of TRE Plan

Within 90 days of determination of toxicity, the permittee shall submit plans for an effluent TRE to the Compliance Data Section of the IDEM. The TRE plan shall include appropriate measures to characterize the causative toxicant and the variability associated with these compounds. Guidance on conducting effluent toxicity reduction evaluations is available from EPA and from the EPA publications listed below:

(1) Methods for Aquatic Toxicity Identification Evaluations:

Phase I Toxicity Characterization Procedures, Second Edition (EPA/600/6-91/003), February 1991.

Phase II Toxicity Identification Procedures (EPA 600/R-92/080), September 1993.

Phase III Toxicity Confirmation Procedures (EPA/600/R-92/081), September 1993

(2) Methods for Chronic Toxicity Identification Evaluations

Phase I Characterization of Chronically Toxic Effluents EPA/600/6-91/005F, May 1992.

- (3) Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (EPA/600/2-88/070), April 1989.
- (4) Toxicity Reduction Evaluation Protocol for Municipal Wastewater Treatment Plants (EPA/833-B-99-022), August 1999

b. Conduct the TRE

Within 30 days after submittal of the TRE plan to IDEM, the permittee must initiate an effluent TRE consistent with the TRE plan. Progress reports shall be submitted every 90 days to the Compliance Data Section of the Office of Water Quality (OWQ) beginning 90 days after initiation of the TRE study.

c. Reporting

Within 90 days of the TRE study completion, the permittee shall submit to the Compliance Data Section of the Office of Water Quality (OWQ) the final study results and a schedule for reducing the toxicity to acceptable levels through control of the toxicant source or treatment of whole effluent.

d. Compliance Date

The permittee shall complete items a, b, and c from Section 2 and reduce the toxicity to acceptable levels as soon as possible but <u>no later than three years after the date of determination of toxicity</u>.

e. Post-TRE Biomonitoring Requirements (Only Required After Completion of a TRE)

After the TRE, the permittee shall conduct monthly toxicity tests with 2 or more species for a period of three months. Should three consecutive monthly tests demonstrate no toxicity, the permittee shall <u>conduct chronic tests every six months for the duration of the permit</u>. These tests shall be conducted in accordance with the procedures under the Whole Effluent Toxicity Tests Section. The results of these tests shall be submitted to the Compliance Data Section of the Office of Water Quality (OWQ).

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If toxicity is demonstrated as defined in paragraph 1.f after the initial three month period, testing must revert to a TRE as in Part 2 (TRE).

PART II

STANDARD CONDITIONS FOR NPDES PERMITS

A. GENERAL CONDITIONS

1. Duty to Comply

The permittee shall comply with all terms and conditions of this permit in accordance with 327 IAC 5-2-8(1) and all other requirements of 327 IAC 5-2-8. Any permit noncompliance constitutes a violation of the Clean Water Act and IC 13 and is grounds for enforcement action or permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

2. Duty to Mitigate

In accordance with 327 IAC 5-2-8(3), the permittee shall take all reasonable steps to minimize or correct any adverse impact to the environment resulting from noncompliance with this permit. During periods of noncompliance, the permittee shall conduct such accelerated or additional monitoring for the affected parameters, as appropriate or as requested by IDEM, to determine the nature and impact of the noncompliance.

3. Duty to Provide Information

The permittee shall submit any information that the permittee knows or has reason to believe would constitute cause for modification or revocation and reissuance of the permit at the earliest time such information becomes available, such as plans for physical alterations or additions to the facility that:

- a. could significantly change the nature of, or increase the quantity of, pollutants discharged; or
- b. the Commissioner may request to evaluate whether such cause exists.

In accordance with 327 IAC 5-1-3(a)(5), the permittee must also provide any information reasonably requested by the Commissioner.

4. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must obtain and submit a renewal of this permit in accordance with 327 IAC 5-3-2(a)(2). It is the permittee's responsibility to obtain and submit the application. In accordance with 327 IAC 5-2-3(c), the owner of the facility or

operation from which a discharge of pollutants occurs is responsible for applying for and obtaining the NPDES permit, except where the facility or operation is operated by a person other than an employee of the owner in which case it is the operator's responsibility to apply for and obtain the permit. The application must be submitted at least 180 days before the expiration date of this permit. This deadline may be extended if:

- a. permission is requested in writing before such deadline;
- b. IDEM grants permission to submit the application after the deadline; and
- c. the application is received no later than the permit expiration date.

As required under 327 IAC 5-2-3(g)(1) and (2), POTWs with design influent flows equal to or greater than one million (1,000,000) gallons per day and POTWs with an approved pretreatment program or that are required to develop a pretreatment program, will be required to provide the results of whole effluent toxicity testing as part of their NPDES renewal application.

5. Transfers

In accordance with 327 IAC 5-2-8(4)(D), this permit is nontransferable to any person except in accordance with 327 IAC 5-2-6(c). This permit may be transferred to another person by the permittee, without modification or revocation and reissuance being required under 327 IAC 5-2-16(c)(1) or 16(e)(4), if the following occurs:

- a. the current permittee notified the Commissioner at least thirty (30) days in advance of the proposed transfer date.
- b. a written agreement containing a specific date of transfer of permit responsibility and coverage between the current permittee and the transferee (including acknowledgment that the existing permittee is liable for violations up to that date, and the transferee is liable for violations from that date on) is submitted to the Commissioner.
- c. the transferee certifies in writing to the Commissioner their intent to operate the facility without making such material and substantial alterations or additions to the facility as would significantly change the nature or quantities of pollutants discharged and thus constitute cause for permit modification under 327 IAC 5-2-16(d). However, the Commissioner may allow a temporary transfer of the permit without permit modification for good cause, e.g., to enable the transferee to purge and empty the facility's treatment system prior to making alterations, despite the transferee's intent to make such material and substantial alterations or additions to the facility.
- d. the Commissioner, within thirty (30) days, does not notify the current permittee and the transferee of the intent to modify, revoke and reissue, or terminate the permit and

to require that a new application be filed rather than agreeing to the transfer of the permit.

The Commissioner may require modification or revocation and reissuance of the permit to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act or state law.

6. Permit Actions

In accordance with 327 IAC 5-2-16(b) and 327 IAC 5-2-8(4), this permit may be modified, revoked and reissued, or terminated for cause, including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Failure of the permittee to disclose fully all relevant facts or misrepresentation of any relevant facts in the application, or during the permit issuance process; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge controlled by the permittee (e.g., plant closure, termination of the discharge by connecting to a POTW, a change in state law or information indicating the discharge poses a substantial threat to human health or welfare).

Filing of either of the following items does not stay or suspend any permit condition: (1) a request by the permittee for a permit modification, revocation and reissuance, or termination, or (2) submittal of information specified in Part II.A.3 of the permit including planned changes or anticipated noncompliance.

The permittee shall submit any information that the permittee knows or has reason to believe would constitute cause for modification or revocation and reissuance of the permit at the earliest time such information becomes available, such as plans for physical alterations or additions to the permitted facility that:

- 1. could significantly change the nature of, or increase the quantity of, pollutants discharged; or
- 2. the commissioner may request to evaluate whether such cause exists.

7. Property Rights

Pursuant to 327 IAC 5-2-8(6) and 327 IAC 5-2-5(b), the issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to persons or private property or an invasion of rights, any infringement of federal, state, or local laws or regulations. The issuance of the permit also does not preempt any duty to obtain any other state, or local assent required by law for the

discharge or for the construction or operation of the facility from which a discharge is made.

8. Severability

In accordance with 327 IAC 1-1-3, the provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any person or circumstance is held invalid, the invalidity shall not affect any other provisions or applications of the permit which can be given effect without the invalid provision or application.

9. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the Clean Water Act.

10. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Clean Water Act or state law.

11. Penalties for Violation of Permit Conditions

Pursuant to IC 13-30-4, a person who violates any provision of this permit, the water pollution control laws; environmental management laws; or a rule or standard adopted by the Water Pollution Control Board is liable for a civil penalty not to exceed twenty-five thousand dollars (\$25,000) per day of any violation. Pursuant to IC 13-30-5, a person who obstructs, delays, resists, prevents, or interferes with (1) the department; or (2) the department's personnel or designated agent in the performance of an inspection or investigation commits a class C infraction.

Pursuant to IC 13-30-10, a person who intentionally, knowingly, or recklessly violates any provision of this permit, the water pollution control laws or a rule or standard adopted by the Water Pollution Control Board commits a class D felony punishable by the term of imprisonment established under IC 35-50-2-7(a) (up to one year), and/or by a fine of not less than five thousand dollars (\$5,000) and not more than fifty thousand dollars (\$50,000) per day of violation. A person convicted for a violation committed after a first conviction of such person under this provision is subject to a fine of not more than one hundred thousand dollars (\$100,000) per day of violation, or by imprisonment for not more than two (2) years, or both.

12. Penalties for Tampering or Falsification

In accordance with 327 IAC 5-2-8(10), the permittee shall comply with monitoring, recording, and reporting requirements of this permit. The Clean Water Act, as well as IC 13-30-10, provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under a permit shall, upon conviction, be punished by a fine of not more than ten thousand dollars (\$10,000) per violation, or by imprisonment for not more than one hundred eighty (180) days per violation, or by both.

13. Toxic Pollutants

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Clean Water Act for a toxic pollutant injurious to human health, and that standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition in accordance with 327 IAC 5-2-8(5). Effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants injurious to human health are effective and must be complied with, if applicable to the permittee, within the time provided in the implementing regulations, even absent permit modification.

14. Operator Certification

The permittee shall have the wastewater treatment facilities under the responsible charge of an operator certified by the Commissioner in a classification corresponding to the classification of the wastewater treatment plant as required by IC 13-18-11-11 and 327 IAC 5-22. In order to operate a wastewater treatment plant the operator shall have qualifications as established in 327 IAC 5-22-7. The permittee shall designate one (1) person as the certified operator with complete responsibility for the proper operations of the wastewater facility.

327 IAC 5-22-10.5(a) provides that a certified operator may be designated as being in responsible charge of more than one (1) wastewater treatment plant, if it can be shown that he will give adequate supervision to all units involved. Adequate supervision means that sufficient time is spent at the plant on a regular basis to assure that the certified operator is knowledgeable of the actual operations and that test reports and results are representative of the actual operations conditions. In accordance with 327 IAC 5-22-3(11), "responsible charge" means the person responsible for the overall daily operation, supervision, or management of a wastewater facility.

Pursuant to 327 IAC 5-22-10(4), the permittee shall notify IDEM when there is a change of the person serving as the certified operator in responsible charge of the wastewater treatment facility. The notification shall be made no later than thirty (30) days after a change in the operator.

15. Construction Permit

Except in accordance with 327 IAC 3, the permittee shall not construct, install, or modify any water pollution treatment/control facility as defined in 327 IAC 3-1-2(24). Upon completion of any construction, the permittee must notify the Compliance Data Section of the Office of Water Quality in writing.

16. <u>Inspection and Entry</u>

In accordance with 327 IAC 5-2-8(8), the permittee shall allow the Commissioner, or an authorized representative, (including an authorized contractor acting as a representative of the Commissioner) upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a point source, regulated facility, or activity is located or conducted, or where records must be kept pursuant to the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment or methods (including monitoring and control equipment), practices, or operations regulated or required pursuant to this permit; and
- d. Sample or monitor at reasonable times, any discharge of pollutants or internal wastestreams for the purposes of evaluating compliance with the permit or as otherwise authorized.

17. New or Increased Discharge of Pollutants

This permit prohibits the permittee from undertaking any action that would result in a new or increased discharge of a bioaccumulative chemical of concern (BCC) or a new or increased permit limit for a regulated pollutant that is not a BCC unless one of the following is completed prior to the commencement of the action:

- a. Information is submitted to the Commissioner demonstrating that the proposed new or increased discharges will not cause a significant lowering of water quality as defined under 327 IAC 2-1.3-2(50). Upon review of this information, the Commissioner may request additional information or may determine that the proposed increase is a significant lowering of water quality and require the submittal of an antidegradation demonstration.
- b. An antidegradation demonstration is submitted to and approved by the Commissioner in accordance with 327 IAC 2-1.3-5 and 327 IAC 2-1.3-6.

B. MANAGEMENT REQUIREMENTS

- 1. Facility Operation, Maintenance and Quality Control
 - a. In accordance with 327 IAC 5-2-8(9), the permittee shall at all times maintain in good working order and efficiently operate all facilities and systems (and related appurtenances, i.e., equipment used for measuring and determining compliance) for collection and treatment that are:
 - (1) installed or used by the permittee; and
 - (2) necessary for achieving compliance with the terms and conditions of the permit.

Neither 327 IAC 5-2-8(9), nor this provision, shall be construed to require the operation of installed treatment facilities that are unnecessary for achieving compliance with the terms and conditions of the permit. This provision also does not prohibit taking redundant treatment units off line, provided that the permittee is at all times: maintaining in good working order and efficiently operating all facilities and systems; providing best quality effluent; and achieving compliance with the terms and conditions of the permit.

- b. The permittee shall operate the permitted facility in a manner which will minimize upsets and discharges of excessive pollutants. The permittee shall properly remove and dispose of excessive solids and sludges.
- c. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance, and testing functions required to ensure compliance with the conditions of this permit.
- d. Maintenance of all waste collection, control, treatment, and disposal facilities shall be conducted in a manner that complies with the bypass provisions set forth below.
- e. Pursuant to 327 IAC 5-22-10(1), the permittee is responsible for providing adequate funding for and oversight of the wastewater treatment plant and collection system to ensure proper operation, maintenance, management, and supervision.
- f. Any extensions to the sewer system must continue to be constructed on a separated basis. Plans and specifications, when required, for extension of the sanitary system must be submitted to the Facility Construction and Engineering Support Section, Office of Water Quality in accordance with 327 IAC 3-2-2. There shall also be an ongoing preventative maintenance program for the sanitary sewer system.

2. Bypass of Treatment Facilities

Pursuant to 327 IAC 5-2-8(12):

- a. Terms as defined in 327 IAC 5-2-8(12)(A):
 - (1) "Bypass" means the intentional diversion of a waste stream from any portion of a treatment facility.
 - (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b. Bypasses, as defined above, are prohibited, and the Commissioner may take enforcement action against a permittee for bypass, unless:
 - (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage, as defined above;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Part II.B.2.d; or
 - (4) The condition under Part II.B.2.f below is met.
- c. Bypasses that result in death or acute injury or illness to animals or humans must be reported in accordance with the "Spill Response and Reporting Requirements" in 327 IAC 2-6.1, including calling 888/233-7745 as soon as possible, but within two (2) hours of discovery. However, under 327 IAC 2-6.1-3(1), when the constituents of the bypass are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.
- d. The permittee must provide the Commissioner with the following notice:
 - (1) If the permittee knows or should have known in advance of the need for a bypass (anticipated bypass), it shall submit prior written notice. If possible, such notice shall be provided at least ten (10) days before the date of the bypass for approval by the Commissioner.

- (2) The permittee shall orally report or fax a report of an unanticipated bypass within 24 hours of becoming aware of the bypass event. The permittee must also provide a written report within five (5) days of the time the permittee becomes aware of the bypass event. The written report must contain a description of the noncompliance (i.e. the bypass) and its cause; the period of noncompliance, including exact dates and times; if the cause of noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the bypass event. If a complete fax or email submittal is sent within 24 hours of the time that the permittee became aware of the unanticipated bypass event, then that report will satisfy both the oral and written reporting requirement.
- e. The Commissioner may approve an anticipated bypass, after considering its adverse effects, if the Commissioner determines that it will meet the conditions listed above in Part II.B.2.b. The Commissioner may impose any conditions determined to be necessary to minimize any adverse effects.
- f. The permittee may allow any bypass to occur that does not cause a violation of the effluent limitations in the permit, but only if it also is for essential maintenance to ensure efficient operation. These bypasses are not subject to the provisions of Part II.B.2.b.,d and e of this permit.

3. <u>Upset Conditions</u>

Pursuant to 327 IAC 5-2-8(13):

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph c of this subsection, are met.
- c. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, that:
 - (1) An upset occurred and the permittee has identified the specific cause(s) of the upset;
 - (2) The permitted facility was at the time being operated in compliance with proper operation and maintenance procedures;

- (3) The permittee complied with any remedial measures required under "Duty to Mitigate", Part II.A.2; and
- (4) The permittee submitted notice of the upset as required in the "Incident Reporting Requirements," Part II.C.3, or 327 IAC 2-6.1, whichever is applicable. However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.
- d. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof pursuant to 40 CFR 122.41(n)(4).

4. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State and to be in compliance with all Indiana statutes and regulations relative to liquid and/or solid waste disposal.

- a. Collected screenings, slurries, sludges, and other such pollutants shall be disposed of in accordance with provisions set forth in 329 IAC 10, 327 IAC 6.1, or another method approved by the Commissioner.
- b. The permittee shall comply with existing federal regulations governing solids disposal, and with applicable provisions of 40 CFR Part 503, the federal sludge disposal regulation standards.
- c. The permittee shall notify the Commissioner prior to any changes in sludge use or disposal practices.
- d. The permittee shall maintain records to demonstrate its compliance with the above disposal requirements.

5. Power Failures

In accordance with 327 IAC 5-2-10 and 327 IAC 5-2-8(14) in order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. provide an alternative power source sufficient to operate facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, or
- b. shall halt, reduce or otherwise control all discharge in order to maintain compliance with the effluent limitations and conditions of this permit upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the

permittee to maintain compliance with the effluent limitations and conditions of this permit.

6. <u>Unauthorized Discharge</u>

Any overflow or release of sanitary wastewater from the wastewater treatment facilities or collection system that results in a discharge to waters of the state and is not specifically authorized by this permit is expressly prohibited. These discharges are subject to the reporting requirements in Part II.C.3 of this permit.

C. REPORTING REQUIREMENTS

1. Planned Changes in Facility or Discharge

Pursuant to 327 IAC 5-2-8(11)(F) and 5-2-16(d), the permittee shall give notice to the Commissioner as soon as possible of any planned alterations or additions to the facility (which includes any point source) that could significantly change the nature of, or increase the quantity of, pollutants discharged. Following such notice, the permit may be modified to revise existing pollutant limitations and/or to specify and limit any pollutants not previously limited. Material and substantial alterations or additions to the permittee's operation that were not covered in the permit (e.g., production changes, relocation or combination of discharge points, changes in the nature or mix of products produced) are also cause for modification of the permit. However those alterations which constitute total replacement of the process or the production equipment causing the discharge converts it into a new source, which requires the submittal of a new NPDES application.

2. Monitoring Reports

Pursuant to 327 IAC 5-2-8(10), 327 IAC 5-2-13, and 327 IAC 5-2-15, monitoring results shall be reported at the intervals and in the form specified in "Data On Plant Operation", Part I.B.2.

3. <u>Incident Reporting Requirements</u>

Pursuant to 327 IAC 5-2-8(11) and 327 IAC 5-1-3, the permittee shall orally report to the Commissioner information on the following incidents within 24 hours from the time permittee becomes aware of such occurrence. If the incident meets the emergency criteria of item b (Part II.C.3.b) or 327 IAC 2-6.1, then the report shall be made as soon as possible, but within two (2) hours of discovery. However, under 327 IAC 2-6.1-3(1), when the constituents of the discharge are regulated by this permit, and death or acute injury or illness to animals or humans does not occur, the reporting requirements of 327 IAC 2-6.1 do not apply.

- a. Any unanticipated bypass which exceeds any effluent limitation in the permit;
- b. Any emergency incident which may pose a significant danger to human health or the environment. Reports under this item shall be made as soon as the permittee becomes

aware of the incident by calling 317/233-7745 (888/233-7745 toll free in Indiana). This number should only be called when reporting these emergency events;

- c. Any upset (as defined in Part II.B.3 above) that exceeds any technology-based effluent limitations in the permit;
- d. Any release, including basement backups, from the sanitary sewer system (including satellite sewer systems operated or maintained by the permittee) not specifically authorized by this permit. Reporting of known releases from private laterals not caused by a problem in the sewer system owned or operated by the permittee is not required under Part II.C.3, however, documentation of such events must be maintained by the permittee and available for review by IDEM staff;
- e. Any discharge from any outfall from which discharge is explicitly prohibited by this permit as well as any discharge from any other outfall or point not listed in this permit; or
- f. Violation of a maximum daily discharge limitation for any of the following toxic pollutants: mercury

The permittee can make the oral reports by calling 317/232-8670 during regular business hours. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. For incidents involving effluent limit violations or discharges, the written submission shall contain: a description of the event and its cause; the period of occurrence, including exact dates and times, and, if the event has not concluded, the anticipated time it is expected to continue; and steps taken or planned to reduce, mitigate and eliminate the event and steps taken or planned to prevent its recurrence. For sewer releases which do not meet the definition of a discharge, the written submission shall contain: a description of the event and its believed cause; the period of occurrence; and any steps taken or planned to mitigate the event and steps taken or planned to prevent its recurrence. The permittee may submit a "Bypass" Overflow/Incident Report" or a "Noncompliance Notification Report", whichever is applicable, to IDEM at 317/232-8637 or 317/232-8406 or to wwwreports@idem.IN.gov. If a complete fax or email submittal is sent within 24 hours of the time that the permittee became aware of the occurrence, then that report will satisfy both the oral and written reporting requirements.

4. Other Noncompliance

Pursuant to 327 IAC 5-2-8(11)(D), the permittee shall report any instance of noncompliance not reported under the "Incident Reporting Requirements" in Part II.C.3 at the time the pertinent Discharge Monitoring Report is submitted. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent the noncompliance.

5. Other Information

Pursuant to 327 IAC 5-2-8(11)(E), where the permittee becomes aware that it failed to submit any relevant facts or submitted incorrect information in a permit application or in any report to the Commissioner, the permittee shall promptly submit such facts or corrected information to the Commissioner.

6. Signatory Requirements

Pursuant to 327 IAC 5-2-22 and 327 IAC 5-2-8(15):

- a. All reports required by the permit and other information requested by the Commissioner shall be signed and certified by a person described below or by a duly authorized representative of that person:
 - (1) For a corporation: by a principal executive defined as a president, secretary, treasurer, any vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making functions for the corporation or the manager of one or more manufacturing, production, or operating facilities employing more than two hundred fifty (250) persons or having gross annual sales or expenditures exceeding twenty-five million dollars (\$25,000,000) (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a federal, state, or local governmental body or any agency or political subdivision thereof: by either a principal executive officer or ranking elected official.
- b. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described above.
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - (3) The authorization is submitted to the Commissioner.

c. <u>Certification</u>. Any person signing a document identified under paragraphs a and b of this section, shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

7. Availability of Reports

Except for data determined to be confidential under 327 IAC 12.1, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Indiana Department of Environmental Management and the Regional Administrator. As required by the Clean Water Act, permit applications, permits, and effluent data shall not be considered confidential.

8. Penalties for Falsification of Reports

IC 13-30 and 327 IAC 5-2-8(15) provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 180 days per violation, or by both.

9. Progress Reports

In accordance with 327 IAC 5-2-8(11)(A), reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date

10. Advance Notice for Planned Changes

In accordance with 327 IAC 5-2-8(11)(B), the permittee shall give advance notice to IDEM of any planned changes in the permitted facility, any activity, or other circumstances that the permittee has reason to believe may result in noncompliance with permit requirements.

11. <u>Additional Requirements for POTWs and/or Treatment Works Treating Domestic Sewage</u>

- a. All POTWs shall identify, in terms of character and volume of pollutants, any significant indirect discharges into the POTW which are subject to pretreatment standards under section 307(b) and 307 (c) of the CWA.
- b. All POTWs must provide adequate notice to the Commissioner of the following:
 - (1) Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to section 301 or 306 of the CWA if it were directly discharging those pollutants.
 - (2) Any substantial change in the volume or character of pollutants being introduced into that POTW by any source where such change would render the source subject to pretreatment standards under section 307(b) or 307(c) of the CWA or would result in a modified application of such standards.

As used in this clause, "adequate notice" includes information on the quality and quantity of effluent introduced into the POTW, and any anticipated impact of the change on the quantity or quality of the effluent to be discharged from the POTW.

- c. This permit incorporates any conditions imposed in grants made by the U.S. EPA and/or IDEM to a POTW pursuant to Sections 201 and 204 of the Clean Water Act, that are reasonably necessary for the achievement of effluent limitations required by Section 301 of the Clean Water Act.
- d. This permit incorporates any requirements of Section 405 of the Clean Water Act governing the disposal of sewage sludge from POTWs or any other treatment works treating domestic sewage for any use for which rules have been established in accordance with any applicable rules.
- e. POTWs must develop and submit to the Commissioner a POTW pretreatment program when required by 40 CFR 403 and 327 IAC 5-19-1, in order to assure compliance by industrial users of the POTW with applicable pretreatment standards established under Sections 307(b) and 307(c) of the Clean Water Act. The pretreatment program shall meet the criteria of 327 IAC 5-19-3 and, once approved, shall be incorporated into the POTW's NPDES permit.

D. ADDRESSES

1. Municipal NPDES Permits Section

Indiana Department of Environmental Management Office of Water Quality – Mail Code 65-42 Municipal NPDES Permits Section 100 N. Senate Avenue Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Municipal NPDES Permits Section:

- a. NPDES permit applications (new, renewal or modifications) with fee
- b. Preliminary Effluent Limits request letters
- c. Comment letters pertaining to draft NPDES permits
- d. NPDES permit transfer of ownership requests
- e. NPDES permit termination requests
- f. Notifications of substantial changes to a treatment facility, including new industrial sources
- g. Combined Sewer Overflow (CSO) Operational Plans
- h. CSO Long Term Control Plans (LTCP)
- i. Stream Reach Characterization and Evaluation Reports (SRCER)

2. Facility Construction and Engineering Support Section

Indiana Department of Environmental Management Office of Water Quality – Mail Code 65-42 Facility Construction and Engineering Support Section 100 N. Senate Avenue Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Facility Construction and Engineering Support Section:

a. Construction permit applications with fee

3. Compliance Data Section

Indiana Department of Environmental Management Office of Water Quality – Mail Code 65-42 Compliance Data Section 100 N. Senate Avenue Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Compliance Data Section:

- a. Discharge Monitoring Reports (DMRs)
- b. Monthly Reports of Operation (MROs)
- c. Monthly Monitoring Reports (MMRs)
- d. CSO MROs
- e. Gauging station and flow meter calibration documentation
- f. Compliance schedule progress reports
- g. Completion of Construction notifications
- h. Whole Effluent Toxicity Testing reports
- i. Toxicity Reduction Evaluation (TRE) plans and progress reports
- j. Bypass/Overflow Reports
- k. Anticipated Bypass/Overflow Reports
- 1. Streamlined Mercury Variance Annual Reports

4. Pretreatment Group

Indiana Department of Environmental Management Office of Water Quality – Mail Code 65-42 Compliance Data Section – Pretreatment Group 100 N. Senate Avenue Indianapolis, Indiana 46204-2251

The following correspondence shall be sent to the Pretreatment Group:

- a. Organic Pollutant Monitoring Reports
- b. Significant Industrial User (SIU) Quarterly Noncompliance Reports

- c. Pretreatment Program Annual Reports
- d. Sewer Use Ordinances
- e. Enforcement Response Plans (ERP)
- f. Sludge analytical results

PART III

REQUIREMENT TO OPERATE A PRETREATMENT PROGRAM

A CONDITIONS

The permittee, hereinafter referred to as the "Control Authority," is required to operate its approved industrial pretreatment program approved on July 7, 1986, and any subsequent modifications approved up to the issuance of this permit. To ensure the program is operated as approved and consistent with 327 IAC 5-16 through 5-21, the following conditions and reporting requirements are hereby established. The Control Authority (CA) shall:

1. Legal Authority

The CA shall develop, enforce and maintain adequate legal authority in its Sewer Use Ordinance (SUO) to fully implement the pretreatment program in compliance with State and local law. As part of this requirement, the CA shall develop and maintain local limits as necessary to implement the prohibitions and standards in 327 IAC 5-18.

2. Permit Issuance

In accordance with 327 IAC 5-19-3(1) the CA is required to issue/reissue permits to Significant Industrial User(s) (SIU) as stated in the SUO. The CA must issue permits to new SIUs prior to the commencement of discharge. A SIU is defined in the SUO.

3. Industrial Compliance Monitoring

The CA is required to conduct inspection, surveillance, and monitoring activities to determine SIU compliance status with the approved program and the SUO independent of data supplied by the SIU. SIU compliance monitoring performed by the CA will be conducted in accordance with the program plan or yearly program plan. SIUs will be inspected once per year, at a minimum.

4. Enforcement

The CA is required to initiate the appropriate enforcement action against a SIU violating any provision of the SUO and/or discharge permit in accordance with the Enforcement Response Procedures (ERP) adopted by the CA. The CA must investigate violations by collecting and analyzing samples and collecting other information with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions in accordance with 40 CFR 403.8(f)(1)(iii) and 327 IAC 5-19-3(1)(F).

5. SIU Quarterly Noncompliance Report

The CA is required to report the compliance status of each SIU quarterly. The report is due by the 28th of the following months: April, July, October, and January of each year.

The report shall include a description of corrective actions that have or will be taken by the CA and SIU to resolve the noncompliance situations. This report is to be sent to the Compliance Branch of the Office of Water Quality.

6. Public Participation and Annual Publishing of SIUs in Significant Noncompliance

The CA is required to comply with the public participation requirements under 40 CFR 25 and 327 IAC 5-19-3(2)(L). The CA must publish annually, by January 28, in the largest daily newspaper in the area, a list of SIUs that have been in Significant Noncompliance (SNC) with the SUO during the calendar year. The CA shall include in the ANNUAL REPORT a list of the SIUs published along with the newspaper clipping.

7. <u>Industrial User Survey</u>

The CA shall prepare and maintain a list of its Industrial Users meeting the criteria in 40 CFR 403.3(v)(1). The list shall identify the criteria in 40 CFR 403.3(v)(1) applicable to each Industrial User and where applicable, shall also indicate whether the CA has made a determination pursuant to 40 CFR 403.3(v)(2) that such Industrial User should not be considered a Significant Industrial User. Modifications to the list shall be submitted to the Approval Authority pursuant to 40 CFR 403.12(i)(1).

8. Annual Report

The CA is required to submit an annual report to the Pretreatment Group and EPA Region 5 by April 1, of each year. The CA shall also include a copy of the updated industrial user survey list. The annual report will be submitted in accordance with 40 CFR 403.12(i) to the following addresses:

Pretreatment Program Manager U.S. EPA Region 5, WN-16J NPDES Programs Branch 77 W. Jackson Blvd. Chicago, IL 60604

Indiana Department of Environmental Management Office of Water Quality - Mail Code 65-42 Compliance Data Section – Pretreatment Group 100 North Senate Avenue Indianapolis, IN 46204-2251

9. Records Retention

Pursuant to 327 IAC 5-16-5.3(b), the CA shall retain any pretreatment reports from an industrial user a minimum of three (3) years and shall make such reports available for inspection and copying by IDEM or the U.S. EPA. This period of retention shall be

extended during the course of any unresolved litigation regarding the discharge of pollutants by the industrial user, the operation of the POTW pretreatment program or when requested by IDEM or the U.S. EPA.

10. Confidentiality

The CA is required to comply with all confidentiality requirements set forth in 40 CFR 403.14, as well as the procedures established in the SUO.

11. Program Resources

Pursuant to 327 IAC 5-19-3(3), The CA shall maintain sufficient resources and qualified personnel to carry out the pretreatment program requirements.

12. Interjurisdictional Agreements

The CA must maintain sufficient legal authority to ensure compliance with all applicable pretreatment limits and requirements by all SIUs discharging to the POTW, including SIUs within governmental jurisdictions outside the immediate jurisdiction of the POTW. The CA must maintain the interjurisdictional agreements necessary to ensure full compliance by SIUs located within other jurisdictions as discussed in 40 CFR 403.8(f)(1).

13. POTW Pretreatment Program Revision Requirements

No later than 6 months after the effective date of this permit, the permittee shall reevaluate its SUO to determine whether it provides adequate legal authority to fully implement the pretreatment program. Any modifications to the permittee's SUO shall be consistent with U.S. EPA's EPA Model Pretreatment Ordinance, available at: http://cfpub.epa.gov/npdes/docs.cfm?program_id=3&view=allprog&sort=name#model_ordinance.

In addition, the re-evaluation must include a technical re-evaluation of the local limits in accordance with 40 CFR 122.44(j)(2)(ii). The CA is to conduct the local limitations technical evaluation consistent with U.S. EPA's Local Limits Development Guidance (July 2004) document and U.S. EPA Region 5 Local Limits Spreadsheet (February 2011) available at: http://www.epa.gov/r5water/npdestek/npdprta.htm. The permittee shall submit these re-evaluations to U.S. EPA Region 5 and IDEM Pretreatment Group for review.

14. Program Modification

Pursuant to 327 IAC 5-19-6 and 40 CFR 403.18, any significant proposed program modification shall be submitted to the Pretreatment Group and the U.S. EPA for approval. A significant modification shall include, but not be limited to, any change in the SUO, major modification in the approval program's administrative procedures, a significant reduction in monitoring procedures, a significant change in the financial/revenue system, a significant change in the local limitations contained in the SUO, and a change in the industrial user survey.

NOTE: A summary of the revisions to the General Pretreatment Regulations (40 CFR 403) is available from the Pretreatment Group of the Compliance Data Section.

ATTACHMENT A

Precipitation Related Combined Sewer Overflow Discharge Authorization Requirements

I. <u>Discharge Authorization</u>

A. Combined Sewer Overflows are point sources subject to both technology-based and water quality-based requirements of the Clean Water Act and state law. The permittee is authorized to have wet weather discharges from outfall(s) listed below subject to the requirements and provisions of this permit, including Attachment A.

<u>Outfall</u>	<u>Location</u>	Receiving Water
004	15 th Avenue & Elkhart Street 41° 34' 40" N 87° 16' 22" W	West Branch Little Calumet River
005	32 nd Avenue & Broadway - West 41° 33' 39" N 87° 20' 11" W	West Branch Little Calumet River
006	Rhode Island at East Interceptor 41° 36' 28" N 87° 19' 33" W	East Branch Grand Calumet River
007	Alley 9 East at East Interceptor 41° 36' 28" N 87° 19' 25" W	East Branch Grand Calumet River
008	Polk Street at East Interceptor 41° 36' 28" N 87° 21' 00" W	East Branch Grand Calumet River
009	Pierce Street at East Interceptor 41° 36' 25" N 87° 21' 09" W	East Branch Grand Calumet River
010	Bridge Street at East Interceptor 41° 36' 32" N 87° 22' 21" W	East Branch Grand Calumet River
011	Chase Street at East Interceptor 41° 36' 22" N 87° 22' 40" W	East Branch Grand Calumet River

012	Colfax Street at West Interceptor 41° 36' 32" N 87° 24' 46" W	East Grand Calumet Calumet River
013	25 th Avenue & Louisiana Street 41° 34' 23" N 87° 19' 08" W	West Branch Little Calumet River
014	25 th Avenue & Wisconsin Street 41° 34' 25" N 87° 18' 22" W	West Branch Little Calumet River
015	32 nd & Broadway/Alley 1 East 41° 33' 39" N 87° 20' 09" W	West Branch Little Calumet River

Monitoring for the purpose of reporting on the CSO Monthly Report of Operation (State Form 50546) shall be conducted at a location representative of untreated CSO discharges. Monitoring from a CSO regulator structure contributing flow to the CSO outfall is acceptable provided flows at this location are representative and comprised of untreated CSO flows ultimately discharged through the CSO outfall. Monitoring at the CSO outfall is considered representative except in those instances where non-CSO flows (treated effluents, separate stormwater, etc.) are also discharged through a common outfall. All non-CSO flows shall be excluded from reporting on the CSO Monthly Report of Operation.

- B. At all times the discharge from any and all CSO outfalls herein shall not cause receiving waters:
 - 1. including the mixing zone, to contain substances, materials, floating debris, oil, scum, or other pollutants:
 - a. that will settle to form putrescent or otherwise objectionable deposits;
 - b. that are in amounts sufficient to be unsightly or deleterious;
 - c. that produce color, visible oil sheen, odor, or other conditions in such a degree as to create a nuisance;
 - d. which are in amounts sufficient to be acutely toxic to, or otherwise severely injure or kill aquatic life, other animals, plants, or humans;
 - e. which are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.
 - 2. outside the mixing zone, to contain substances in concentrations which on the basis of available scientific data are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants.

C. Dry weather discharges from any portion of the sewer collection system, except WWTP outfall Nos. 001A and 001B, are prohibited. If such a prohibited discharge should occur, the permittee is required to report the discharge in accordance with the provisions in Part II.C.3 of this permit.

II. Monitoring and Reporting Requirements

The permittee shall complete and submit accurate monitoring reports to the Indiana Department of Environmental Management. The permittee shall submit data specified on the CSO Monthly Report of Operation (MRO) for untreated CSO events (State Form 50546), including but not limited to, WWTP data, precipitation data, and performance data for all discharges from untreated CSO Outfalls identified in Part I of this Attachment A. Submitted CSO MROs shall contain results obtained during each month (a monitoring period) and shall be submitted no later than 28 days following each completed monitoring period. All NPDES permit holders are now required to submit their monitoring data to IDEM using NetDMR.

III. CSO Operational Plan

- A. The permittee shall comply with the following minimum technology-based controls, in accordance with EPA's National CSO Control Policy:
 - 1. The permittee shall implement proper operation and regular maintenance programs for the sewer system and the CSOs. The purpose of the operation and maintenance programs is to reduce the magnitude, frequency and duration of CSOs. The programs shall consider regular sewer inspections; sewer, catch basin, and regulator cleaning; equipment and sewer collection system repair or replacement, where necessary; and disconnection of illegal connections.
 - 2. The permittee shall implement procedures that will maximize the use of collection system for wastewater storage that can be accommodated by the storage capacity of the collection system in order to reduce the magnitude, frequency and duration of CSOs.
 - 3. The permittee shall review and modify, as appropriate, its existing pretreatment program to minimize CSO impacts from non-domestic users. The permittee shall identify all industrial users that discharge to the collection system upstream of any CSO outfalls; this identification shall also include the pollutants in the industrial user's wastewater and the specific CSO outfall(s) that are likely to discharge the wastewater.
 - 4. The permittee shall operate the POTW at the maximum treatable flow during all wet weather flow conditions to reduce the magnitude, frequency and duration of CSOs. The permittee shall deliver all flows to the treatment plant within the constraints of the treatment capacity of the POTW.
 - 5. Dry weather overflows from CSO outfalls are prohibited. Each dry weather overflow must be reported to IDEM as soon as the permittee becomes aware of the overflow. When the permittee detects a dry weather overflow, it shall begin corrective action immediately. The permittee shall inspect the dry weather overflow each subsequent day until the overflow has been eliminated.

- 6. The permittee shall implement measures to control solid and floatable materials in CSO discharges.
- 7. The permittee shall implement a pollution prevention program focused on reducing the impact of CSOs on receiving waters.
- 8. The permittee shall implement a public notification process to inform citizens of when and where CSO discharges occur and their impacts. This notification must also be done in accordance with 327 IAC 5-2.1.
- 9. The permittee shall monitor to effectively characterize CSO impacts and the efficacy of CSO controls.
- B. The permittee's implementation of each of the minimum controls in Part III.A of this Attachment A shall be documented in its approved CSO Operational Plan (CSOOP). The permittee shall update the CSOOP, as necessary, to reflect changes in its operation or maintenance practices; changes to measures taken to implement the above minimum requirements; and changes to the treatment plant or collection system, including changes in collection system flow characteristics, collection system or WWTP capacity or discharge characteristics (including volume, duration, frequency and pollutant concentration). All updates to the CSOOP must be submitted to IDEM, Office of Water Quality, Municipal NPDES Permits Section for approval.

The CSOOP update(s) shall include a summary of the proposed revisions to the CSOOP as well as a reference to the page(s) that have been modified. Any CSOOP updates shall not result in:

- 1. a lower amount of flow being sent to and through the plant for treatment, or
- 2. more discharges (measured either by volume, duration, frequency, or pollutant concentration) occurring from the CSO outfalls.

The permittee shall maintain a current CSO Operational Plan, including all approved updates, on file at the POTW.

IV. Sewer Use Ordinance Review/Revision and Enforcement

The permittee's Sewer Use Ordinance must contain provisions which: (1) prohibit introduction of inflow sources to any sanitary sewer; (2) prohibit construction of new combined sewers outside of the existing combined sewer service area; and (3) provide that for any new building the inflow/clear water connection to a combined sewer shall be made separate and distinct from sanitary waste connection to facilitate disconnection of the former if a separate storm sewer subsequently becomes available. The permittee shall continuously enforce these provisions.

V. <u>Reopening Clauses</u>

- A. This permit may be reopened to address changes in the EPA National CSO Policy or state or federal law.
- B. The permit may be reopened, after public notice and opportunity for hearing, to incorporate applicable provisions of IC 13-18.

ATTACHMENT B Streamlined Mercury Variance

I. Introduction

The permittee submitted an application for renewal of a streamlined mercury variance (SMV) in accordance with the provisions of 327 IAC 5-3.5. The SMV establishes a streamlined process for obtaining a variance from a water quality criterion used to establish a WQBEL for mercury in an NPDES permit. Based on a review of the SMV renewal application, IDEM has determined the application to be complete as outlined in 327 IAC 5-3.5-7. Therefore, the SMV renewal has been issued concurrently with the NPDES permit in accordance with 327 IAC 5-3.5-6.

II. Term of SMV

The SMV and the interim discharge limit will remain in effect until the NPDES permit expires under IC 13-14-8-9 (amended under SEA 620, May 2005). Pursuant to IC 13-14-8-9(d), when the NPDES permit is extended under IC 13-15-3-6 (administratively extended), the SMV will remain in effect as long as the NPDES permit requirements affected by the SMV are in effect.

III. Annual Reports

The annual report is a condition of the Pollutant Minimization Program Plan (PMPP) requirements of 327 IAC 5-3.5-9(a)(8). The annual report must describe the permittee's progress toward fulfilling each PMPP requirement, the results of all mercury monitoring within the previous year, and the steps taken to implement the planned activities outlined under the PMPP. The annual report will be due by July 1 of each year.

IV. SMV Renewal

As authorized under 327 IAC 5-3.5-7(a)(1), the permittee may apply for the renewal of an SMV at any time within 180 days prior to the expiration of the NPDES permit. In accordance with 327 IAC 5-3.5-7(c), an application for renewal of the SMV must contain the following:

- A. All information required for an initial SMV application under 327 IAC 5-3.5-4, including revisions to the PMPP, if applicable.
- B. A report on implementation of each provision of the PMPP.
- C. An analysis of the mercury concentrations determined through sampling at the facility's locations that have mercury monitoring requirements in the NPDES permit for the two (2) year period prior to the SMV renewal application.
- D. A proposed alternative mercury discharge limit, if appropriate, to be evaluated by the department according to 327 IAC 5-3.5-8(b) based on the most recent two (2) years of representative sampling information from the facility.

Renewal of the SMV is subject to a demonstration showing that PMPP implementation has achieved progress toward the goal of reducing mercury from the discharge.

V. <u>Pollutant Minimization Program Plan (PMPP)</u>

The PMPP is a requirement of the SMV application and is defined in 327 IAC 5-3.5-3(4) as the plan for development and implementation of Pollutant Minimization Program (PMP). The PMP is defined in 327 IAC 5-3.5-3(3) as the program developed by an SMV applicant to identify and minimize the discharge of mercury into the environment. PMPP requirements are outlined in 327 IAC 5-3.5-9. In accordance with 327 IAC 5-3.5-6, the requirements of the PMPP are appended with this Attachment.

Municipal Streamlined Mercury Variance Renewal Application Gary Sanitary District Wastewater Treatment Plant January 2017

PART TWO – POLLUTANT MINIMIZATION PROGRAM PLAN (PMPP) INVENTORY/IDENTIFICATION

II A.

Appendix II A (Attachment Part II A) of this application includes the facility layout with the chemical storage locations identified (red dot) and the preliminary Inventory of Potential Uses and Sources of Mercury in all the buildings and departments, as well as preliminary identification of known mercury-bearing equipment, waste streams, and mercury storage sites.

IIB.

The GSD WWTP will implement a plan and schedule that will provide the IDEM with a complete inventory of known mercury-bearing equipment and chemicals that was initiated under Part Two A of the initial SMV application (2011). The inventory will also include following documentation:

Plan

- Mercury content in the most commonly purchased chemicals and equipment Chemical and equipment suppliers will be contacted to provide an estimate of the mercury content in the most commonly purchased items. The information will be confirmed via MSDS or written correspondence from the supplier.
- Mass Loading of bulk-chemicals used annually-Suppliers that have confirmed mercury
 content within the chemicals utilized at the WWTP and provide chemicals to the plant
 will be contacted to provide an estimate of the quantities of the chemicals used annually.
- Number of mercury containing equipment- Number of mercury containing equipment (quantitative inventory) for items identified in the submitted checklist under part II A.

Schedule

- The GSD will provide to the IDEM a complete inventory and mass loading of all mercury containing chemicals with the each annual report from the effective date that the SMV is incorporated into the renewed GSD NPDES Permit # IN0022977
- The GSD will provide a complete inventory of mercury containing equipment, and replacement activity of them throughout the facility, with each annual report from the effective date that the SMV is incorporated into the renewed GSD NPDES Permit # IN0022977

Municipal Streamlined Mercury Variance Renewal Application Gary Sanitary District Wastewater Treatment Plant January 2017

II C(1-5).

Results of a preliminary evaluation of possible mercury sources in the facility's influent consisting of a listing of all Commercial and/or Industrial which are enclosed in the (Attachment Part IIC) Appendix IIC

II C(6).

The City attests to the fact that an identification of the responsibilities of the significant industrial users among such possible sources of mercury under P.L. 225-2001 has been undertaken.

II D.

Plan

The purpose of this plan is to complete the identification of sources of mercury to the GSD's influent, including a confirmation of the correct name and address of each source. This will be accomplished with the following steps:

• Mailer and Survey

GSD staff will design a set of mailers targeted to each sector or group of possible sources, including, e.g., hospitals and other medical facilities, dental offices and clinics, laboratories at educational institutions, SIUs and other industries, and significant residential and retail sources. The mailer will include information about the City's PMPP and a set of survey questions regarding the potential use of materials or equipment containing mercury. Each recipient will be requested to complete the survey and confirm his/her/its proper name, address and other contact information.

• Follow up Surveys, Site Visits or telephonic confirmation

GSD personnel will send follow-up mailers to those entities on the preliminary list who fail to respond to the initial mailer. If no response is made to such follow up mailers, GSD personnel may make on site visits or call over telephone to confirm preliminary information.

Schedule

GSD personnel will mail the initial letters and surveys within six (6) months and it will complete its evaluation of potential sources of mercury to the GSD Plant's influent, as described above, and report progress with each annual report followed the SMV Approval Date.

Municipal Streamlined Mercury Variance Renewal Application Gary Sanitary District Wastewater Treatment Plant January 2017

PART THREE - POLLUTANT MINIMIZATION PROGRAM PLAN (PMPP) PLANNED ACTIVITIES

III A.

Refer to **Appendix III A – III B**

6. GSD confirms that the identification of the responsibilities as mentioned above has been undertaken.

III B.

Refer to Appendix III A – III B

III C.

Refer to Appendix III C

III D.

The Gary Sanitary District commits to providing the staff and resources necessary for the adequate implementation of the PMPP as provided.

Implementation of the PMPP will be performed under the direction of the District's Industrial Pretreatment Program (IPP) Coordinator with the support of administrative and technical staff. It is anticipated that approximately 250 working hours will be required to implement and maintain the PMPP with an estimated cost between \$5,000.00 and \$10,000.00. Actual time distribution for each department along with equivalent budget expenses will be included in the Annual Progress Reports.

PERSONNEL	NUMBER OF EMPLOYEES	
IPP Coordinator	1	
IPP Investigator	2	
Operations Manager	1	
Sewer Division Supervisor	1	
Maintenance Supervisor	1	

Gary Sanitary District Streamlined Mercury Variance Renewal Application Pollutant Minimization Program Plan (Part III A. and B.)

January, 2017

Sector	Planned Activity	Goal	Measure	Schedule
Wastewater Treatment Facility . Operations . Maintenance . Laboratory . IPP	Inventory/identification of potential sources of mercury at POTW	Mercury-free where practical	Verification from chemical and/or equipment suppliers for mercury-free product; or sampling data	9 months after SMV renewal Report progress with annual report.
	Review of purchasing policies and procedures	r -	Adoption of policies and procedures	9 months after SMV renewal Report progress with annual report.
	Training and awareness of facility staff	Promote BMP implementation	Participation and adherence to program	9 months after SMV renewal Report progress with annual report.
	Public education program within service area	Education/awareness materials	Participation	9 months after SMV renewal Report progress with annual report.
	Evaluation of alternatives to mercury containing equipment and materials	Mercury free where practical	Tabulate inventory and indicate chemicals and/or equipment replacement	Ongoing.
Sewer Collections Division	Collection system	Vactor solids from catch basins	CSOOP program and material removed	Ongoing
		Vactor accumulated solids from lift stations	CSOOP program and material removed	Ongoing

Fact Sheet March 2017

Facility Location and Mailing Address:

Gary Sanitary District Wastewater Treatment Plant Located at 3600 West 3rd Avenue Gary, Indiana 46406 Lake County

<u>Final Effluent Outfalls 001A & 001B- Location</u> Latitude: 41° 36' 29" N

Longitude: 87° 23' 19" W

NPDES Permit No. IN0022977

Background

This is the proposed renewal of the NPDES permit for the Gary Sanitary District Wastewater Treatment Plant. In addition to the City of Gary, the Gary Sanitary District provides wastewater collection and treatment to the following satellite communities: City of Hobart, City of Lake Station, Merrillville Conservancy District, and New Chicago via the City of Hobart's sewer system. Numerous industrial and commercial contributors are also served. (See the "Industrial Contributions" Section of this Fact Sheet for additional information).

The Gary Sanitary District's NPDES permit was last issued on April 18, 2012 with an effective date of July 1, 2012 and an expiration date of June 30, 2017. The permittee submitted an application for NPDES permit renewal which was dated December 22, 2016 and received on December 30, 2016. Gary Sanitary District also submitted an application for renewal of a Streamlined Mercury Variance (SMV) as part of this permit renewal. Please refer to the "Streamlined Mercury Variance (SMV) Renewal" portion of this Fact Sheet for additional information.

Treatment Facility Description

The permittee currently operates a Class IV, 60 MGD single stage activated sludge wastewater treatment facility consisting of a trash rack, four mechanical bar screens, two grit tanks, two cyclone de-gritters, two wet wells, ten primary sedimentation tanks with scum collection systems, six aeration basins, twenty-four secondary clarifiers, phosphorus removal facilities, ten two-cell single media sand filters with mud wells, chlorination / dechlorination facilities, and influent and effluent flow meters. Sludge handling includes gravity thickeners, anaerobic digestion and belt filter presses. Final solids are disposed of via landfill. The permittee may discharge via either of two adjacent main plant outfalls, 001A & 001B, each outfall is representative of the final effluent discharged.

Collection System

The collection system is comprised of combined sanitary and storm sewers with twelve (12) Combined Sewer Overflow (CSO) locations. The CSO locations have been identified and permitted with provisions in Attachment A of the permit. The facility's current permit includes reference to a 2004 CSO inspection report performed by EPA that listed the collection system as approximately 90% combined.

CSO Statutory or Regulatory Basis for Permit Provisions

CSOs are point sources subject to NPDES permit requirements, including both technology-based and water quality-based requirements of the CWA and state law. Thus the permit contains provisions IDEM deems necessary to meet water quality standards, as well as technology-based treatment requirements, operation and maintenance requirements, and best management practices. This permit is based on various provisions of state and federal law, including (1) Title 13 of the Indiana Code; (2) the water quality standards set forth in 327 IAC 2-1.5; (3) the NPDES rules set forth in 327 IAC 2 and 327 IAC 5, including 327 IAC 5-2-8 and 327 IAC 5-2-10; and (4) section 402(q) of the CWA (33 USC § 1342), which requires all permits or orders issued for discharges from municipal CSOs to conform with the provisions of EPA's National CSO Control Policy (58 Fed. Reg. 18688, April 19, 1994). EPA's CSO Policy contains provisions that, among other things, require permittees to develop and implement minimum technological and operational controls and long term control plans to meet state water quality standards. The permit's penalty provisions are based in large part on IC 13-30. In addition to the regulatory provisions previously cited, the data collection and reporting requirements are based in part on 327 IAC 5-1-3, 327 IAC 5-2-13 and section 402(q) of the CWA. The long term control plan provisions were included to ensure compliance with water quality standards.

Explanation of CSO Effluent Limitations and Conditions

The effluent limitations set forth in Part I of Attachment A are derived in part from the narrative water quality standards set forth in 327 IAC 2-1.5-8. The narrative standards are minimum standards that apply to all waters at all times, and therefore are applicable to all discharges of pollutants. Because EPA has not issued national effluent limitation guidelines for this category of discharges, the technology-based BAT/BCT provisions are based on best professional judgment (BPJ) in addition to section 402(q) of the CWA. (CSO discharges are not subject to the secondary treatment requirements applicable to publicly owned treatment works because overflow points have been determined to not be part of the treatment plant. Montgomery Environmental Coalition v. Costle, 646 F.2d 568 (D.C. Cir. 1980).)

CSO Long-Term Control Plan Requirements

The Gary Sanitary District has committed to providing a CSO Long Term Control Plan (LTCP) to the Indiana Department of Environmental Management and U.S. EPA under the terms of Consent Decree Civil Action No. 2:16-cv-00512. Once approved, Gary Sanitary District must implement its LTCP under the terms of this Consent Decree.

Spill Reporting Requirements

Reporting requirements associated with the Spill Reporting, Containment, and Response requirements of 327 IAC 2-6.1 are included in Part II.B.2.c. and Part II.C.3. of the NPDES permit. Spills from the permitted facility meeting the definition of a spill under 327 IAC 2-6.1-4(15), the applicability requirements of 327 IAC 2-6.1-1, and the Reportable Spills requirements of 327 IAC 2-6.1-5 (other than those meeting an exclusion under 327 IAC 2-6.1-3 or the criteria outlined below) are subject to the Reporting Responsibilities of 327 IAC 2-6.1-7.

It should be noted that the reporting requirements of 327 IAC 2-6.1 do not apply to those discharges or exceedences that are under the jurisdiction of an applicable permit when the substance in question is covered by the permit and death or acute injury or illness to animals or humans does not occur. In order for a discharge or exceedence to be under the jurisdiction of this NPDES permit, the substance in question (a) must have been discharged in the normal course of operation from an outfall listed in this permit, and (b) must have been discharged from an outfall for which the permittee has authorization to discharge that substance.

Solids Disposal

The permittee is required to dispose of its sludge in accordance with 329 IAC 10, 327 IAC 6.1, or 40 CFR Part 503. Ultimate disposal of solids is via a sanitary landfill.

Receiving Stream

The facility discharges to the East Branch Grand Calumet River (via Outfalls 001A & 001B) to Indiana Harbor Canal to Indiana Harbor to the Indiana portion of the open waters of Lake Michigan. The East Branch Grand Calumet River, Indiana Harbor Canal and Indiana Harbor are designated for full-body contact recreation and shall be capable of supporting a well-balanced, warm water aquatic community. The Indiana portion of the open waters of Lake Michigan is designated in 327 IAC 2-1.5-5(a)(3)(G) as a salmonid water and shall be capable of supporting a salmonid fishery. The Indiana portion of the open waters of Lake Michigan is classified in 2-1.5-19(b)(2) as an outstanding state resource water (OSRW).

The East Branch Grand Calumet River from about 0.5 miles upstream of Bridge Street (located upstream of the Gary Sanitary District discharge) to the Indiana Harbor Canal (assessment unit INK0346_04) is on the 2014 303(d) list for impaired biotic communities, oil and grease, *E. coli* and PCBs in fish tissue. The Indiana Harbor Canal (assessment unit INC0163_T1001) is on the 2014 303(d) list for impaired biotic communities, oil and grease, *E. coli* and PCBs in fish tissue. The Indiana Harbor (assessment Unit INC0163G_G1078) is on the 2014 303(d) list for free cyanide and for mercury in fish tissue and PCBs in fish tissue. A TMDL for *E. coli* for the Lake Michigan shoreline was approved by U.S. EPA September 1, 2004 and is part of the Lake Michigan TMDL. This TMDL does not affect the Gary Sanitary District WWTP discharge.

The Gary Sanitary District WWTP discharge is included in the East Branch Grand Calumet River wasteload allocation analysis that is documented in the report "Supplemental Information for the Wasteload Allocation Analysis for the U.S. Steel Gary Works (IN0000281) 2016 Draft Permit"

dated July 8, 2016. This included a multi-discharger wasteload allocation for the pollutant ammonia-N. The $Q_{7,10}$ of East Branch Grand Calumet River upstream of the Gary Sanitary District outfall was set equal to 244.9 MGD (379 cfs) in the multi-discharger wasteload allocation based on the summation of the long-term average discharge flows of upstream outfalls from U.S. Steel Gary Works. This same value for the $Q_{7,10}$ was used in the current wasteload allocation for the Gary Sanitary District WWTP.

Industrial Contributions

In addition to the previously mentioned satellite communities, the permittee accepts industrial flow from the following commercial/industrial sources: Majestic Star Casino, Canadian National, Chicago Steel, Gary Chicago Airport, Gary Landfill, Gary Landfill (J-Pit Location), Indiana Industrial Investment, Lake Shore Trucking, Loves Travel Stop, Methodist Hospital Northlake, Monosol, Schneider National Trucking, Stericycle, Travel Centers of America, United States Steel Corporation (Broadway & Buchanan Locations), and Welsh, L.L.C.

Based on the industrial flow received by the treatment facility, the permittee is required to operate its approved industrial pretreatment program approved on July 7, 1986. Provisions for the industrial pretreatment program are included in Part III of this permit renewal. In addition, monitoring requirements and/or effluent limitations for arsenic, cadmium, chromium, copper, cyanide, iron, lead, mercury, nickel, zinc, phenols, chloride, sulfate, and fluoride are included in the permit renewal.

Antidegradation

327 IAC 2-1.3 outlines the state's Antidegradation Standards and Implementation Procedures. The Tier 1 antidegradation standard found in 327 IAC 2-1.3-3(a) applies to all surface waters of the state regardless of their existing water quality. Based on this standard, for all surface waters of the state, existing uses and the level of water quality necessary to protect existing uses shall be maintained and protected. IDEM implements the Tier 1 antidegradation standard by requiring NPDES permits to contain effluent limits and best management practices for regulated pollutants that ensure the narrative and numeric water quality criteria applicable to the designated use are achieved in the water and any designated use of the downstream water is maintained and protected.

The Tier 2 antidegradation standard found in 327 IAC 2-1.3-3(b) applies to surface waters of the state where the existing quality for a parameter is better than the water quality criterion for that parameter established in 327 IAC 2-1.5. These surface waters are considered high quality for the parameter and this high quality shall be maintained and protected unless the commissioner finds that allowing a significant lowering of water quality is necessary and accommodates important social or economic development in the area in which the waters are located. IDEM implements the Tier 2 antidegradation standard for regulated pollutants with numeric water quality criteria quality adopted in or developed pursuant to 327 IAC 2-1.5 and utilizes the antidegradation implementation procedures in 327 IAC 2-1.3-5 and 2-1.3-6.

According to 327 IAC 2-1.3-1(b), the antidegradation implementation procedures in 327 IAC 2-1.3-5 and 2-1.3-6 apply to a proposed new or increased loading of a regulated pollutant to surface waters of the state from a deliberate activity subject to the Clean Water Act, including a change in process or operation that will result in a significant lowering of water quality.

The NPDES permit does not propose to establish a new or increased loading of a regulated pollutant; therefore, the Antidegradation Implementation Procedures in 327 IAC 2-1.3-5 and 2-1.3-6 do not apply to the permitted discharge.

Effluent Limitations and Rationale

The effluent limitations proposed herein are based on Indiana Water Quality Standards, NPDES regulations, and Wasteload Allocation (WLA) analyses performed by this Office's Permits Branch staff on April 23, 2004 and March 10, 2017. These limits are in accordance with antibacksliding regulations specified in 327 IAC 5-2-10(a)(11)(A). Monitoring frequencies are based upon facility size and type. IDEM has waived the 85% removal requirement for CBOD₅ and TSS under the provisions of 40 CFR 133.103(a). The periodic improvements required under the permittee's LTCP would make the percent removal level a dynamic measurement and any limitation based on percent removal impractical.

The final effluent limitations to be limited and/or monitored include: Flow, Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Suspended Solids (TSS), phosphorus, pH, Dissolved Oxygen (DO), oil & grease, *Escherichia coli* (*E. coli*), Ammonia-nitrogen (NH₃-N), Total Residual Chlorine (TRC), Whole Effluent Toxicity (WET), arsenic, cadmium, chromium, copper, cyanide, lead, mercury, nickel, zinc, phenols, chloride, sulfate, and fluoride.

Final Effluent Limitations

The summer monitoring period runs from May 1 through November 30 of each year and the winter monitoring period runs from December 1 through April 30 of each year. The disinfection season runs from April 1 through October 31 of each year.

The mass limits for CBOD₅, TSS and ammonia-nitrogen have been calculated utilizing the peak design flow of 120 MGD. This is to facilitate the maximization of flow through the treatment facility in accordance with this Office's CSO policy. It should be noted that as recently as the June 13, 2006 NPDES permit for the Gary Sanitary District, a theoretical peak design rating of 180 MGD was used as the basis for establishing mass limitations. However, this historical flow rating was based on theoretical design simulation calculations, potential hydraulic bottlenecks in the treatment system may preclude a peak of 180 MGD. For that reason, Gary Sanitary District's current NPDES permit and this proposed renewal NPDES permit include mass limitations based on a peak rating identified in the IDEM construction permit, 120 MGD.

Influent Monitoring

The raw influent and the wastewater from intermediate unit treatment processes, as well as the final effluent shall be sampled and analyzed for the pollutants and operational parameters specified by the applicable Monthly Report of Operation Form, as appropriate, in accordance with 327 IAC 5-2-13 and Part I.B.2 of the permit. Except where the permit specifically states otherwise, the sample frequency for the raw influent and intermediate unit treatment process shall be at a minimum the same frequency as that for the final effluent. The measurement frequencies specified in each of the tables in Part I.A. are the minimum frequencies required by the permit.

Flow

Flow is to be measured daily as a 24-hour total. Reporting of flow is required by 327 IAC 5-2-13.

CBOD₅

CBOD₅ is limited to 5.0 mg/l (5,007 lbs/day) as a monthly average and 7.5 mg/l (7,511 lbs/day) as a weekly average during the summer monitoring period. During the winter monitoring period, CBOD₅ is limited to 8.8 mg/l (8,812 lbs/day) as a monthly average and 13.2 mg/l (13,218 lbs/day) as a weekly average.

Monitoring is to be conducted daily by 24-hour composite sampling. The CBOD₅ concentration limitations included in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on April 23, 2004 and are the same as the concentration limitations found in the facility's previous permit

TSS

TSS is limited to 6.0 mg/l (6,008 lbs/day) as a monthly average and 9.0 mg/l (9,013 lbs/day) as a weekly average during the summer monitoring period. During the winter monitoring period, TSS is limited to 9.6 mg/l (9,613 lbs/day) as a monthly average and 14.4 mg/l (14,420 lbs/day) as a weekly average.

Monitoring is to be conducted daily by 24-hour composite sampling. The TSS concentration limitations included in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on April 23, 2004 and are the same as the concentration limitations found in the facility's previous permit.

Phosphorus

In accordance with 327 IAC 5-10-2(a) & (b), as the treatment facility discharges into receiving waters located within the Lake Michigan drainage basin, phosphorus removal facilities shall achieve a degree of reduction as prescribed in the sliding scale of phosphorus removal in Table 1, Footnote 4 of the permit, or produce an effluent containing no more than 1.0 mg/l total phosphorus (P), whichever is more stringent. Monitoring is to be conducted daily by 24-hour composite sampling.

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The pH limitations have been based on 40 CFR 133.102 which is cross-referenced in 327 IAC 5-5-3.

To ensure conditions necessary for the maintenance of a well-balanced aquatic community, the pH of the final effluent must be between 6.0 and 9.0 standard units in accordance with provisions in 327 IAC 2-1.5-8(c)(2).

pH must be measured daily by grab sampling. These pH limitations are the same as the limitations found in the facility's previous permit.

Dissolved Oxygen

Dissolved oxygen shall not fall below 6.0 mg/l as a daily minimum average during the summer monitoring period. During the winter monitoring period, dissolved oxygen shall not fall below 5.0 mg/l as a daily minimum average.

These dissolved oxygen limitations are based on the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on April 23, 2004 and are the same as the concentration limitations found in the facility's previous permit. Dissolved oxygen measurements must be based on the average of twelve (12) grab samples taken within a 24-hr. period. This monitoring is to be conducted daily.

Oil & Grease

Oil & Grease is limited to 10 mg/l as a daily maximum. Monitoring is to be conducted five (5) times weekly by grab sampling. This limitation is the same as the limitation found in the facility's previous permit and is being retained in accordance with antibacksliding regulations specified in 327 IAC 5-2-10(a)(11)(A).

E. coli

The *E. coli* limitations and monitoring requirements apply from April 1 through October 31, annually. *E. coli* is limited to 125 count/100 ml as a monthly average, and 235 count/100 ml as a daily maximum. The monthly average *E. coli* value shall be calculated as a geometric mean. This monitoring is to be conducted daily by grab sampling. These *E. coli* limitations are set in accordance with 327 IAC 2-1.5-8(e) as cross-referenced with 327 IAC 5-2-11.4(d)(2).

Ammonia-nitrogen

Ammonia-nitrogen is limited to 1.00 mg/l (1,001 lbs/day) as a monthly average and 2.33 mg/l (2,333 lbs/day) as a daily maximum during the summer monitoring period. During the winter monitoring period, ammonia-nitrogen is limited to 1.13 mg/l (1,132 lbs/day) as a monthly average and 2.63 mg/l (2,634 lbs/day) as a daily maximum.

Monitoring is to be conducted daily by 24-hour composite sampling. The ammonia-nitrogen concentration limitations included in this permit are set in accordance with the Wasteload Allocation (WLA) analysis performed by this Office's Permits Branch staff on April 23, 2004 and are the same as the concentration limitations found in the facility's previous permit.

Total Residual Chlorine

In accordance with Indiana Water Quality Standards, the final effluent limits (end-of-pipe) for TRC are 0.008 mg/l monthly average and 0.018 mg/l daily maximum. The monthly average Water Quality-Based Effluent Limit (WQBEL) for total residual chlorine is less than the limit of quantitation (LOQ), 0.06 mg/l. Compliance with this permit will be demonstrated if the monthly average effluent level is less than or equal to the monthly average WQBEL. Daily effluent values that are less than the LOQ, used to determine the monthly average effluent levels less than the LOQ, may be assigned a value of zero (0), unless, after considering the number of monitoring results that are greater than the limit of detection (LOD), and applying appropriate statistical techniques, a value other than zero (0) is warranted.

The daily maximum WQBEL for total residual chlorine is greater than or equal to the LOD value, but less than the LOQ value specified in the permit. Compliance with this permit will be demonstrated if the observed daily effluent concentrations are less than the LOQ. For daily maximum mass limitations based on WQBEL's less than the LOQ, compliance with the daily maximum mass value is based on the LOQ value. Compliance with the daily maximum mass value will be demonstrated if the calculated mass value is less than 60.1 lbs/day. These total residual chlorine limitations are the same as the limitations found in the facility's previous permit.

Whole Effluent Toxicity Testing / Limitations

The permittee submitted results of multiple rounds of Whole Effluent Toxicity Tests (WETT) with the renewal application as required in 327 IAC 5-2-3(g). None of the results indicated either acute or chronic toxicity to Cladoceran (*Ceriodaphnia dubia*) or Fathead Minnow (*Pimephales promelas*).

Indiana's regulations for the Great Lakes system include narrative criteria with numeric interpretations for acute (2-1.5-8(b)(1)(E)(ii)) and chronic (2-1.5-8(b)(2)(A)(iv)) whole effluent toxicity (WET) and a procedure for conducting reasonable potential for WET (5-2-11.5(c)(1)). The U.S. EPA did not approve the reasonable potential procedure for WET so Indiana is now required under 40 CFR Part 132.6(c) to use the reasonable potential procedure in Paragraphs C.1 and D of Procedure 6 in Appendix F of 40 CFR Part 132. IDEM used this procedure in conducting the reasonable potential analysis for WET. The analysis is included in the Wasteload Allocation Analysis conducted by this Office's Permits Branch staff on March 10, 2017.

The results of the reasonable potential analysis for WET show that the discharge has a reasonable potential to exceed the numeric interpretation of the narrative criterion for chronic WET. Therefore, WQBELs are required for WET.

Once a determination is made that WQBELs are required for WET, the WQBELs are established in accordance with 327 IAC 5-2-11.6(d). This provision allows a case-by-case determination of whether to establish a WQBEL for only acute or chronic WET, or WQBELs for both acute and chronic WET. The chronic WQBEL was established as a monthly average limit and set equal to the chronic wasteload allocation in accordance with 327 5-2-11.6(d)(1)(E). The acute WQBEL was established as a daily maximum limit and set equal to the acute wasteload allocation in accordance with 327 5-2-11.6(d)(1)(E). The monthly average WQBEL for WET is 2.0 chronic toxicity units (TUc) and chronic WET testing is required twice annually. The daily maximum WQBEL for WET is 1.0 acute toxicity units (TUa) and acute WET testing is required twice annually.

The permittee shall conduct the whole effluent toxicity tests described in Part I.D. of the permit to monitor the toxicity of the discharge from Outfall 001A and 001B. When Outfall 001B is not in use, monitoring of Outfall 001A satisfies this requirement. This toxicity testing is to be performed once every six months for the duration of this NPDES permit. Acute toxicity will be demonstrated if the effluent is observed to have exceeded 1.0 TU_a(acute toxic units) based on 100% effluent for the test organism in 48 and 96 hours for *Ceriodaphnia dubia* or *Pimephales promelas*, which ever is more sensitive. Chronic toxicity will be demonstrated if the effluent is observed to have exceeded 2.0 TU_c (chronic toxic units) for *Ceriodaphnia dubia* or *Pimephales promelas*. If acute or chronic toxicity is found in any of the tests specified above, another toxicity test using the specified methodology and same test species shall be conducted within two weeks. If any two tests indicate the presence of toxicity, the permittee must begin the implementation of a toxicity reduction evaluation (TRE) as is described in Part I.D.2. of the permit.

Metals/Non-conventional Pollutants

Reasonable Potential Evaluations (RPE) were performed in conjunction with the Wasteload Allocation Analysis performed by this Office's Permits Branch staff on March 10, 2017. In reviewing the RPE, the projected effluent quality (PEQ) for arsenic, cadmium, chromium, copper, cyanide, lead, nickel, zinc, phenols, chloride, sulfate, and fluoride is less than the projected effluent limitations (PEL). Therefore, effluent limitations have not been included for the aforementioned metals, and the effluent limitations for zinc have been removed. However, due to the industrial contributors to the collection system, monitoring requirements for these metals will be continued in the NPDES permit at a reduced sampling frequency of quarterly for both the influent and effluent by 24-Hr. composite sampling.

The RPE determined that the projected effluent quality (PEQ) for mercury was greater than the projected effluent limitations (PELs). Therefore, effluent limitations for mercury are being retained in this permit. The mercury WQBELs are based on the wildlife criterion in 327 IAC 2-1.5-8(b)(6), Table 8-4. In accordance with 327 IAC 5-2-11.4(b)(1) the criteria for mercury are applied without the utilization of a mixing zone. Mercury monitoring is to be performed six times annually (influent and effluent) by grab sampling. Please see the following "Streamlined Mercury Variance (SMV) Renewal" portion of this Fact Sheet for additional information related to mercury requirements.

Streamlined Mercury Variance (SMV) Renewal

The permittee applied for renewal of a Streamlined Mercury Variance (SMV) via an application dated March 2, 2017 which was received by IDEM on March 3, 2017. Supplemental mercury supporting data was submitted under a cover letter dated March 8, 2017 and received by IDEM on March 13, 2017. Information from a February 2017 mercury sampling event, and a revised table for Appendix III.C. of the Streamlined Mercury Variance application were received via E-mail on March 16, 2017. The SMV renewal has been incorporated into the permit renewal.

The original SMV approval for Gary Sanitary District was included as part of the NPDES permit issued April 18, 2012, which became effective on July 1, 2012.

The SMV establishes a streamlined process for obtaining a variance from a water quality criterion used to establish a WQBEL for mercury in an NPDES permit. The goal of the SMV is to reduce the effluent levels of mercury towards, and achieve as soon as practicable, compliance with the mercury WQBELs through implementation of a pollutant minimization program plan (PMPP). The SMV renewal will remain in effect until the permit expires under IC 13-14-8-9. Pursuant to IC 13-14-8-9(c), when the SMV is incorporated into a permit extended under IC 13-15-3-6 (administratively extended), the renewal will remain in effect until the permit expires.

Interim Discharge Limit

The permit includes an interim discharge limit for mercury of 1.8 ng/l. This limitation was developed in accordance with the procedures specified in 327 IAC 5-3.5-8. Compliance with the interim discharge limit will be achieved when average of the measured effluent daily values over the rolling twelve month period is less than the interim limit. The SMV renewal interim discharge limitation is more stringent than the previously granted interim discharge limit of 3.05 ng/l included in the original SMV effective on July 1, 2012.

Pollutant Minimization Program Plan (PMPP)

PMPP requirements are outlined in 327 IAC 5-3.5-9 and are included in Attachment B of the NPDES permit in accordance with 327 IAC 5-3.5-6. The PMPP focuses on pollution prevention and source control measures to achieve mercury reduction in the effluent. The PMPP was public noticed prior to submittal to IDEM in accordance with 327 IAC 5-3.5-9(c). No comments were received during the public notice period. The goal of the PMPP is to reduce the effluent levels of mercury towards, and achieve as soon as practicable, compliance with the mercury WQBELs established for the permitted facility.

SMV Annual Reports

The permittee is required to submit annual reports to IDEM by July 1 of each year in which the SMV is in effect. The annual report must describe the SMV applicant's progress toward fulfilling each PMPP requirement, the results of all mercury monitoring within the previous year, and the steps taken to implement the planned activities outlined under the PMPP.

Backsliding

None of the concentration limits included in this permit conflict with antibacksliding regulations found in 327 IAC 5-2-10(a)(11)(A), therefore, backsliding is not an issue.

Reopening Clauses

Eight (8) reopening clauses were incorporated into the permit in Part I.C. One clause is to incorporate effluent limits from any further wasteload allocations performed; a second clause is to allow for changes in the sludge disposal standards; a third clause is to incorporate any applicable effluent limitation or standard issued or approved under section 301(b)(2)(C), (D) and (E), 304(b)(2), and 307(a)(2) of the Clean Water Act; a fourth clause is to include revised SMV and/or PMPP requirements; a fifth to incorporate effluent limitations and monitoring requirements for arsenic, cadmium, chromium, copper, cyanide, iron, lead, nickel, zinc, phenols, chloride, sulfate, and/or fluoride if necessary; a sixth clause is to include limitations for specific toxicants if the results of the biomonitoring and/or a Toxicity Reduction Evaluation (TRE) study indicate such limitations are necessary; a seventh is to include a case-specific Method Detection Level (MDL); and an eighth to include more stringent monitoring requirements or conditions, or a require the use of a more sensitive analytical method.

Compliance Status

The Gary Sanitary District has committed to providing a CSO Long Term Control Plan (LTCP) to the Indiana Department of Environmental Management and U.S. EPA under the terms of Consent Decree Civil Action No. 2:16-cv-00512.

Gary Sanitary District is under a Modified Consent Decree through the U.S. EPA requiring the District to address the disposal of waste material in the Ralston Street Lagoon, as well as the clean-up of sediment in the Grand Calumet River.

The permittee entered into an Agreed Order (Order No. 2007-17300-W) with IDEM on April 28, 2008. The Agreed Order requires the permittee to establish procedures ensuring extra-jurisdictional industrial users served by the Gary Sanitary District are subject to enforceable pretreatment standards and requirements.

Expiration Date

A five-year NPDES permit is proposed.

Drafted by: Jerry Dittmer

March 22, 2017

STATE OF INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PUBLIC NOTICE NO: 2017 – 6B – F DATE OF NOTICE: JUNE 23, 2017

The Office of Water Quality issues the following NPDES FINAL PERMIT.

MAJOR - RENEWAL

GARY SANITARY DISTRICT, Permit No. IN0022977, LAKE COUNTY, 3600 West 3rd Av, Gary, IN. This major municipal facility incorporates the SMV and discharges 60 million gallons daily of sanitary, industrial & combined sewer wastewater into East Branch Grand Calumet River. Permit Manager: Jerry Dittmer, jdittmer@idem.in.gov, 317/233-0469.

Notice of Right to Administrative Review [Permits]

If you wish to challenge this Permit, you must file a Petition for Administrative Review with the Office of Environmental Adjudication (OEA), and serve a copy of the Petition upon IDEM. The requirements for filing a Petition for Administrative Review are found in IC 4-21.5-3-7, IC 13-15-6-1 and 315 IAC 1-3-2. A summary of the requirements of these laws is provided below.

A Petition for Administrative Review must be filed with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the issuance of this notice (eighteen (18) days if you received this notice by U.S. Mail), and a copy must be served upon IDEM. Addresses are:

Director
Office of Environmental Adjudication
Indiana Government Center North
Room 501
100 North Senate Avenue
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental Management
Indiana Government Center North
Room 1301
100 North Senate Avenue
Indianapolis, Indiana 46204

The Petition must contain the following information:

- 1. The name, address and telephone number of each petitioner.
- 2. A description of each petitioner's interest in the Permit.
- 3. A statement of facts demonstrating that each petitioner is:
 - a. a person to whom the order is directed;
 - b. aggrieved or adversely affected by the Permit; or
 - c. entitled to administrative review under any law.
- 4. The reasons for the request for administrative review.
- 5. The particular legal issues proposed for review.
- 6. The alleged environmental concerns or technical deficiencies of the Permit.
- 7. The Permit terms and conditions that the petitioner believes would be appropriate and would comply with the law.
- 8. The identity of any persons represented by the petitioner.
- 9. The identity of the person against whom administrative review is sought.
- 10. A copy of the Permit that is the basis of the petition.
- 11. A statement identifying petitioner's attorney or other representative, if any.

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of your right to seek administrative review of the Permit. Examples are:

- 1. Failure to file a Petition by the applicable deadline;
- 2. Failure to serve a copy of the Petition upon IDEM when it is filed; or
- 3. Failure to include the information required by law.

If you seek to have a Permit stayed during the Administrative Review, you may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 315 IAC 1-3-2 and 315 IAC 1-3-2.1.

Pursuant to IC 4-21.5-3-17, OEA will provide all parties with Notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. If you are entitled to Notice under IC 4-21.5-3-5(b) and would like to obtain notices of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action without intervening in the proceeding you must submit a written request to OEA at the address above.

If you have procedural or scheduling questions regarding your Petition for Administrative Review you may contact the Office of Environmental Adjudication at (317) 232-8591 or see OEA's website at http://www.in.gov/oea.

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 2 - SATELLITE COMMUNITIES AGREEMENTS

- APPENDIX 2-1 CITY OF HOBART, INDIANA
- APPENDIX 2-2 CITY OF LAKE STATION, INDIANA
- APPENDIX 2-3 MERRILLVILLE CONSERVANCY DISTRICT

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 2-1 – CITY OF HOBART, INDIANA

WASTEWATER TREATMENT AGREEMENT BETWEEN THE CITY OF GARY SANITARY DISTRICT AND THE THE CITY OF HOBART Dated this 10th day of July 1984

SEWAGE TREATMENT AGREEMENT BETWEEN

THE GARY SANITARY DISTRICT

AND

THE CITY OF HOBART

THIS AGREEMENT (hereinafter referred to as "Agreement"), entered into this Den day of ________, 1984, by and between the Gary Sanitary District, a special taxing district of the City of Gary (hereinafter referred to as "GSD", and the City of Hobart, Indiana (hereinafter referred to as the "City").

WITNESSETH:

WHEREAS, the City does not have adequate means of disposing of its wastewater, liquid wastes and sewage from the City; and

WHEREAS, the GSD owns and operates an approved sewage treatment plant that has received and is currently receiving Federal and State Grant assistance for expansion of capacity and improvement in the quality of treatment and now has capacity available for the treatment of wastewater, liquid wastes and sewage from the City; and

WHEREAS, the City renders sewage disposal service within the Colporate boundaries of the City of Hobart in Lake County, Indiana, and desires to contract with the GSD to treat wastewater, liquid wastes and sewage collected by the City; and

WHEREAS, the City has constructed and is in the process of constructing additional sanitary sewers and desires to connect its sewer system to the sewage treatment and disposal facilities of GSD and will transport wastewater, liquid wastes and sewage

generated within the jurisdiction of the City to the GSD plant to be treated by the GSD.

NOW, THEREFORE, it is hereby agreed by and between the parties hereto that GSD will accept from the City the wastewater, liquid wastes and sewage of the City and will treat and dispose of the same in a proper manner at its sewage treatment plan subject to the following covenants and conditions:

1. Definitions.

- A. The "GSD" shall mean the Gary Sanitary District.
- B. "Flow" shall mean the gallons of liquid effluent transmitted or received. Flow shall include domestic loadings of BOD and Suspended Solids and such other normal pollutants as may be acceptable.
- D. "Suspended Solids" shall mean solids which either float on the surface of or are in suspension in water, sewage or other liquid and which are removable by laboratory filtration. Their concentration shall be expressed in milligrams per liter. Quantitative determinations shall be made in accordance with procedures set forth in "Standard-Methods".

- E. "Wastewater Treatment Plant" shall mean the wastewater treatment plant operated by the GSD and located at Gary, Indiana.
- F. "Transmission Facilities" shall mean large transmission lines, force mains and lift stations necessary for the transportation of sewage to the wastewater treatment plant.
- G. "Collection System" shall mean the system of local sewers necessary to accept effluent from individual residences, businesses and industries throughout the GSD or the City.
 - H. The "City" shall mean the City of Hobart, Indiana.
- I. "Operation and Maintenance" means the associated costs of manpower, energy, materials and chemicals and other costs necessary to produce a wastewater that will meet the effluent requirements and to keep equipment functioning at satisfactory efficiencies.
- J. "Replacement" means expenditures for obtaining and installing equipment, accessories or appurtenances which are necessary during the service life of the treatment works to maintain the capacity and performance for which such works were designed and constructed.
- 2. Effective Date. It is understood and agreed between the parties that this Agreement shall become effective after its execution and approval by the Board of Sanitary Commissioners of the GSD and the Board of Public Works and Safety of the City of Hobart and such regulatory agencies as may be legally required.

3. Term of Agreement.

A. The City shall have a right for as long as the GSD operates its sewage works to use its facilities for the transporta-

tion and treatment of its sewage or until this Agreement is terminated as provided herein.

B. In the event the City constructs its own sewage treatment plant or becomes connected to another system for treatment, the City may, at its option, terminate this Agreement upon giving the GSD thirty (30) days' written notice of its intention to do so and specifying the effective date of the termination. On or before the effective date of such termination, the City shall disconnect all of its sewers. All monies due the GSD under the terms of this Agreement shall be due and payable to the GSD within thirty (30) days from the effective date of termination.

4. Compliance with Applicable Laws.

- A. Prior to the completion of the GSD's present
 Improvement Project, or as soon thereafter as possible, the
 City shall adopt, maintain and enforce the following in such a
 manner as to at all times comply with the "Federal Water Pollution
 Control Act Amendments of 1972" (Public Law 92-500), particularly
 Title II, Section 204(b), and the Federal Regulations as contained
 in the Federal Register, Volume 39, No. 29, dated February 11,
 1974, and any further or supplementary laws and amendments thereto,
 in order to permit the GSD, on a continuing basis, to receive
 grants from the U.S. Environmental Protection Agency and the State
 of Indiana, which may be in the future offer grants incidental
 to the collection and treatment of sewage:
 - (1) A system of charges to assure that each recipient of waste treatment services within its jurisdiction

will pay its proportionate share of the costs of operation and maintenance of the Sewage System (User Charge System).

- (2) An Ordinance, if not already covered by the City's existing ordinances, prohibiting the discharge of any sewage or polluted water prohibited by the GSD's ordinance and ensuring that new sewers and connections to the sewer system are properly designed and constructed (Sewer Use Ordinance).
- B. In the construction, maintenance and operation of its sewage system, the City will comply with all applicable State and Federal laws.
- C. The GSD shall enforce its User Charge and Sewer Use Ordinances beginning at the points of discharge from the City into the GSD's sewage system and downstream to the GSD treatment plant.
- 5. <u>Interconnection</u>. GSD agrees to accept for treatment in its sewage system, wastewater, liquid wastes and sewage delivered by the C: at the GSD sewer line located at Georgia Street and 40th Avenue as shown on Exhibit "A" attached hereto and made a part hereof.

The engineering plans and specifications for any additional connections, measuring devices, or appurtenances to connect to the GSD's system shall be submitted to the GSD at least two (2) weeks before the same are submitted for approval to the Indiana Stream Pollution Control Board and the Indiana Board of Health in order to allow the GSD to review and make written comment with respect to said submissions.

It is expressly understood and agreed between the parties that all costs of the connection, including the planning, inspection and construction of any transporting gravity sewer line to said connection point shall be borne exclusively by the City.

6. Capacity Allocations.

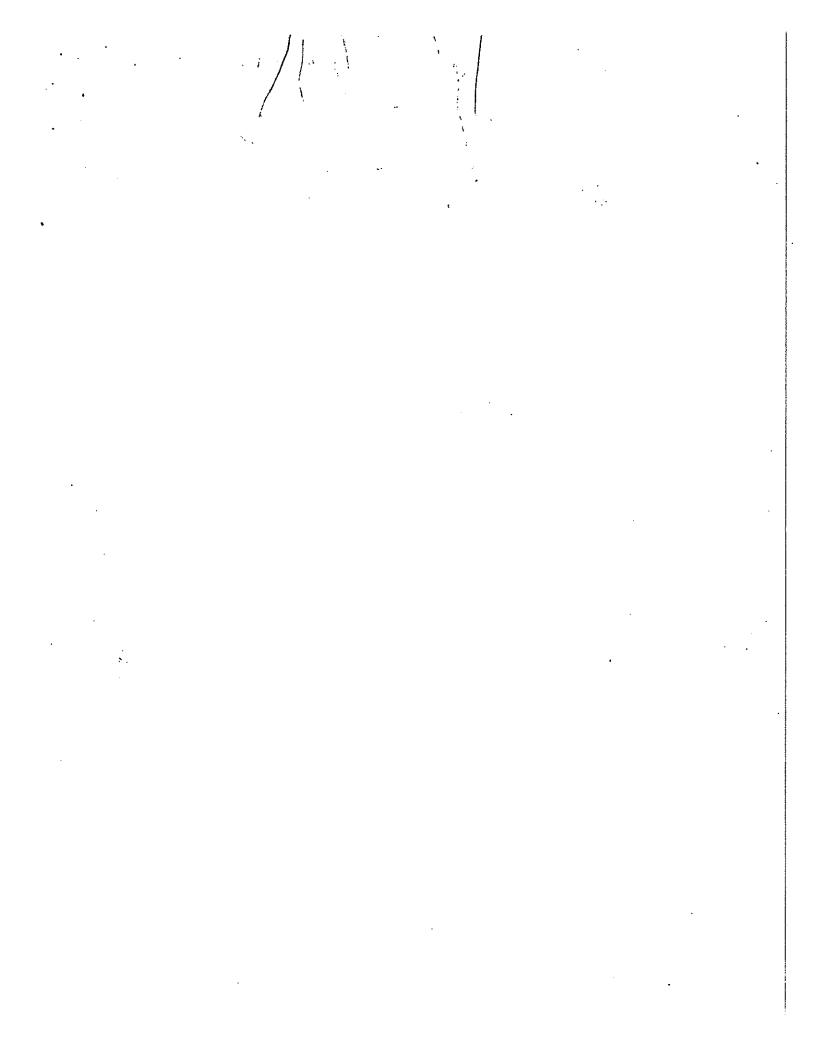
- A. Sewage received by the GSD from the City shall meet all criteria of the GSD as to acceptable materials, acceptable volume and loadings, unacceptable materials and such other criteria as may now or in the future be equitably applied throughout the region served by the GSD in meeting requirements of the State of Indiana or Federal Government.
- B. In the event loadings are received by the GSD from the City in levels exceeding domestic limits of 170 mg/l of BOD and 200 mg/l of Suspended Solids, the City shall be subject to the same surcharges for excess pollutants as are supplied to industry and other users within the region served by the GSD.
- C. Upon discovery that unacceptable substances or materials as defined by the Sewer Use Ordinance of the City of Gary, Indiana, of 1974, as amended from time to time, or waste or materials deemed unacceptable pursuant to rules and regulations duly promulgated by the U.S. Environmental Protection Agency or the Indiana Stream Pollution Control Board, are being discharged by the City to the GSD, the City shall be notified and the City shall forthwith take appropriate steps to insure that such unacceptable materials are excluded from future discharges to the GSD. event of failure of the City to take such steps, then the City shall be liable for any additional costs at the wastewater treatment plant in connection with such unacceptable materials, including any fines as may be levied by the State of Indiana or E.P.A., for noncompliance with the GSD's NPDES permit. discovery that any unacceptable substances or materials are being discharged as set forth above:

- (1) The GSD shall immediately notify the technical secretary of the Indiana Stream Pollution Control Board and the City of such unacceptable sewage or materials, including the location time or times, the nature of such unacceptable sewage or waste, and such other information as may be available.
- (2) Upon verbal notification and confirmation thereof in writing and the City's ability to identify the user responsible for the delivery of such unacceptable wastewater, liquid wastes and sewage, the City shall notify that user to immediately cease delivery of such materials and/or waste within twenty-four (24) hours.
- identify the location, time and source of such unacceptable sewage, cooperate with the City in locating such source. The City will use its best efforts to correct or cut off the user delivering unacceptable wastewater, liquid wastes and sewage to the parties' sewer system.
- (4) In the event that the user delivering such unacceptable sewage or materials through the City Interconnection Point to the GSD sewer system, cannot be ascertained after diligent inquiry by the City and the GSD, then the City and the GSD shall authorize an independent emergency investigation to commence forthwith in regard to the matter. The City and the GSD shall fully cooperate

with said emergency investigation to ascertain the sewer delivering such unacceptable sewage or material and the severity of damage and necessary corrective actions. parties shall determine and agree as to the severity of the damage to the GSD's collection and treatment facilities resulting from the discharge of such unacceptable sewage or materials. If the parties are unable to reach such an agreement, then both parties may agree within thirty (30) days after said negotiations fail to name an independent engineer or other person not connected with either party who has knowledge in the disputed areas. two named arbitrators shall name a third qualified person to serve, and the three arbitrators shall determine unresolved issues between the parties. The judgment of the majority of arbitrators shall be binding upon the parties and the final determination of all unresolved issues.

In addition to the expenses, civil penalties, damages, or fines for the damage to the GSD, the expense of such investigation or arbitration shall be borne by the City. It is the intent of the parties hereto that any arbitrator selected pursuant thereto should have experience and expertise in the particular area of disagreement.

D. The City shall pay its fair share of the annual cash operation and maintenance costs, including replacement costs and capital costs of transportation and treatment of such sewage, according to its use of the GSD's facilities and the formula set out hereafter.



- E. The GSD shall accept, transport and treat all sanitary effluents received by the City and delivered to the GSD, including reasonable inflow and infiltration in connection therewith, together with industrial flow and loadings, all in the same manner as such effluent is acceptable throughout the total region served by the GSD.
- F. In recognition of annual capital costs hereafter assigned to the City and agreed to between the parties, it is further agreed that the City shall have a right to the use of wastewater treatment facilities equal to an average of daily flow of 4.18 million gallons per day determined on the basis of twelve (12) months of flow. It is understood between the parties that the City will have one (1) point of connection to the GSD's lines at the connection point located at 40th and Georgia Streets, City shall have the right to discharge a daily peak flow, during any 24 hour period, of 14.35 million gallons per day.

7. Acceptance and Treatment of Sewage.

A. Responsibility for Delivery and Transportation. The City shall be solely responsible for delivery of the wastewater, liquid wastes and sewage in a form suitable for passage through the GSD sewer line system to the metering point and/or connection point. Said wastewater, liquid wastes and sewage shall be delivered from the City sewage line system to the connection point by either a gravity sewer line or force main. The GSD shall be solely responsible for transporting the wastewater, liquid wastes and

sewage from the metering point or connecting point and delivering same to its sewage treatment facilities.

- B. Treatment. The GSD shall be solely responsible for the proper treatment and transportation of the wastewater, liquid wastes and sewage received from the City in accordance with the requirements and standards of the Indiana-Stream Pollution Control Board, Indiana_State Board-of-Health, the Environmental Protection Agency, and the terms and conditions of the NPDES permit held by the GSD.
- Sewage Materials Accepted. The City shall adopt a Sewer Use Ordinance and User Charge Ordinance, as amended from time to time thereafter, which shall comply at a minimum with the Sewer Use Ordinance of the City of Gary or the GSD and as applicable to all users of the system and specifically all applicable Rules and Regulations of the Environmental Protection Agency. The GSD shall be under no obligation whatsoever to accept any type of waste or toxic materials which are a prohibited discharge under the rules of the U.S. Environmental Protection Agency or the Indiana Stream Pollution Control Board. The GSD has no obligation to accept radioactive material. It is recognized by the City that the Sewer Use Ordinance of the City of Gary, Indiana, of 1974, may be amended from time to time so as to change the types of waste which must be accepted by the GSD; however, this shall not constitute a waiver of the City's right to testify or oppose passage of said ordinances and amendments.
- (8) Metering and Sampling Devices. The City shall properly install and maintain the required metering and sampling devices for

the purpose of measuring the volume of wastewater, liquid wastes and sewage delivered by the City to the connection points for conveyance and treatment and to provide a sampling and monitoring capability. Said metering and sampling devices shall be constructed in a manner and in a place accessable to the GSD. The design of meters and metering point shall be approved by the GSD. Each such device shall be subject to the inspection, testing and approval of GSD at all reasonable times during normal business hours.

For said purposes, and for the purposes of reading and recording data from said meters, each party shall, at all times, have complete and free access to said metering point and sampling devices.

The cost of planning, designing, building and installing any additional metering and sampling devices for an additional connection point, including acquisition of real estate, shall be borne exclusively by the City. In addition, the City shall assume complete responsibility, including costs, for the installation, maintenance and repair of said metering device and will further defray any costs incurred by reason of testing of the metering devices as requests may be made by the GSD from time to time, provided such requests are reasonable as to frequency and nature of tests required.

A. City agrees to provide, install and maintain at its own cost and expense at its Main Lift Station at the intersection of Main and Center Streets, Hobart, Indiana, an automatic flow measuring and recording device with an integrator-totalizer, for the purpose of recording the volume of flow discharged into the

GSD's system. The total weekly readings from such volumetric device shall be reported by telephone to the surveillance chief of the GSD or such other person as may be designated by the GSD on Tuesday of each week at 9:00 a.m. unless such day shall be a holiday, in which event the reading shall be reported the following day.

- B. City agrees to provide, install and maintain at its own cost and expense sampling devices which are capable of providing a twenty-four (24) hour composite sample, taken hourly, at its Main Lift Station. Composite twenty-four (24) hour sampling will be conducted, at a minimum of monthly intervals, during the third full week of each month, by the City and tested by a laboratory as the City and the GSD may from time to time approve. Parameters to be tested shall include, pH, Suspended Solids, COD, BOD, phosphorus, metal ions, total nitrogen and other testing as required to satisfy Indiana Stream Pollution Control Board and the U.S. Environmental Protection Agency regulations. In addition, the City shall at the request of GSD test semi-annually for "heavy metals" or priority pollutants as defined by the U.S. E.P.A. or when required to be tested by the U.S. E.P.A. or Indiana State Board of Health.
- C. Sampling shall be carried out by customarily accepted methods. BOD₅, Carbonaceous, Suspended Solids, Phosphorus, Ammonia Nitrogen, Oil and Grease tests as well as other tests required by the NPDES permit shall be done at least monthly, for a period of seven (7) days, with 24-hour composite samples each day, consisting of a minimum of twelve (12) aliquots composited according to flows taken at equally spaced intervals.

Material samples as received from the sampling devices shall be available to both contracting parties. The results of tests on samples shall be provided to the GSD and the City.

- D. The records and reports from such measuring devices will be kept by the City and made available to the GSD for billing and analysis procedures.
- E. The GSD may inspect such measuring devices at any reasonable time, and in the event such a device fails and is not repaired within a reasonable time by the City, then the GSD may repair the same and the City will pay the GSD all costs and expenses for said repair.
- F. In the event of failure of such measuring or sampling devices, and during the period of repair, for the purposes of determining rates pursuant to this Agreement, it will be assumed that during the period of inoperation of the measuring device the flow was at the average daily volume of the preceding twelve (12) calendar months and that loadings for BOD and Suspended Solids were at the average daily weight of the preceding twelve (12) calendar months.
- G. The City shall pay the GSD a minimum fee of Nine Five munared Dollars (\$900.00) annually, which fee shall be reviewed annually to defray the cost to verify metering the volume of flow and quality of laboratory testing of effluent from the City to GSD. Both parties shall have access to the measuring and sampling for purposes of verifying flow and collecting samples for verification of loading facilities. Notice of such sampling shall be given to the City, and each party will be given adequate

portions of any samples obtained for purposes of measuring and monitoring the quality of effluent being received by the GSD from the City.

- 9. Cost of Treatment. It is understood and agreed that the City' proportionate bill shall be mutually agreed upon through negotiations to commence no later than ninety (90) days prior to actual connection and start of service and that before connection is made the charge be firmly established. It is also acknowledged that Exhibits "A" through "G" from the GSD letter of March 5, 1984, contain the list of projects' and bond issues to be used in determining the capital cost and that proposals indicated therein are only an estimate.
- A. Operation and Maintenance Costs. The City shall pay to GSD for the treatment of wastewater, liquid wastes and sewage from the City an amount as determined on Exhibit "B" hereof, "Schedule of Calculation of Operation and Maintenance Costs". The operation and maintenance costs rate shall be reviewed annually and shall be adjusted according to actual expenditures for the preceding year in each category under conditions and circumstances existing at the time of any such adjustment.

B. Capital Costs.

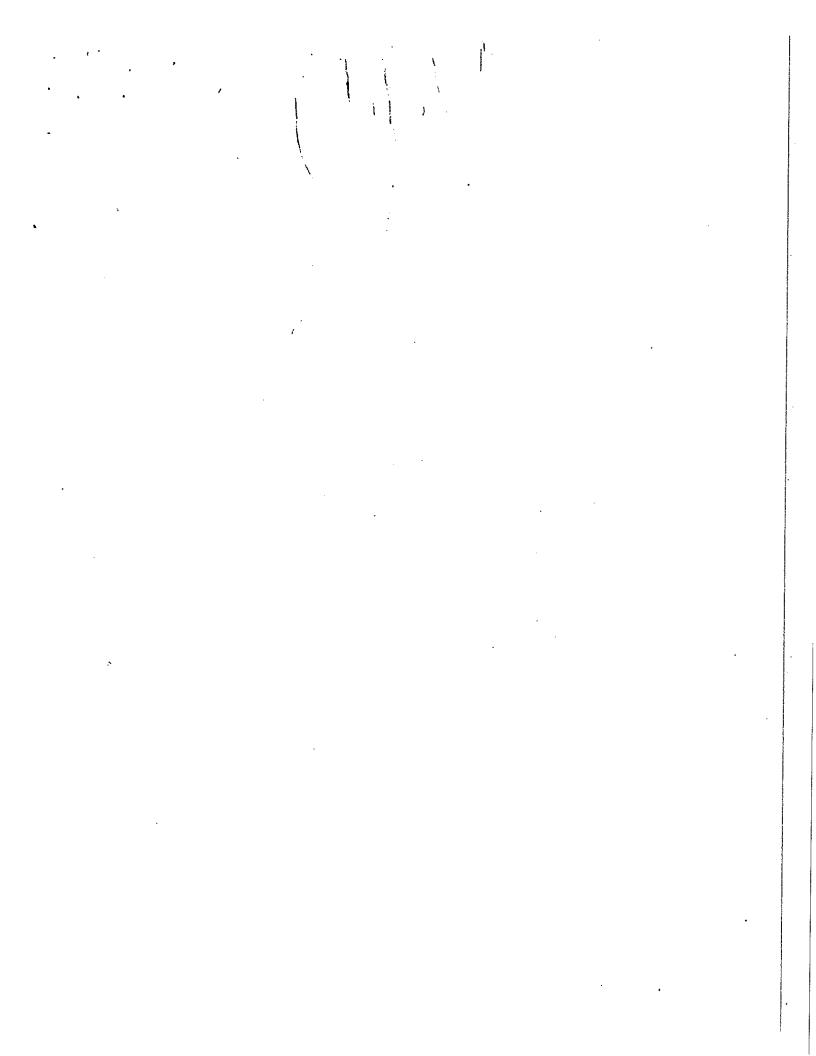
(1) In recognition of the past local cost incurred by GSD in the construction of its sewage treatment plant, the City agrees to pay to GSD as shown on Exhibit "C" hereof, "Calculation of Capital Costs". Such amount shall be payable in equal semi-annual installments as shown on Exhibit "D" hereof with the amount of the first installment prorated from the date sewage is accepted by the GSD into its sewage

bond year end and semi-annually thereafter
until said sum with interest has been paid
in full, whereupon liability for such payments
by the City shall cease. The capital costs
shall be recalculated annually to provide
for adjustments in bond redemption schedules
or to provide for additional capital costs
and they may be received provided, however,
that the percentage allocation as set forth

You Exhibit "C" shall remain constant and not
subject to change.

- (2) Local costs (total less grant funds received)
 necessary for future improvements to the GSD
 wastewater treatment plan shall be shared by
 the City and GSD on the basis of capacity
 reserved for each community or use of the
 facility being improved. Such future capital
 costs and the responsibility of each party hereto
 therefor shall be negotiated and agreed upon
 between the parties at such time as improvements
 become necessary.
- this Agreement, 5.2 percent of GSD's primary sewage treatment capacity of 80 million gallons per day is reserved to City and 94.8 percent to GSD and 7.0 percent of GSD's secondary and tertiary capacity of 60 million gallons per day is reserved to the City and 93.0 percent to the GSD. To utilize these percentages of such capacity, City is entitled to transport 4.18

million gallons per day (average daily flow on an annualized basis) of wastewater, liquid wastes and sewage to GSD. In the event City shall transport wastewater, liquid wastes and sewage to the GSD plant in excess of 4.18 million gallons per day (average daily flow on an annualized basis) and thereby use in excess of their 7.0 percent of capacity before such plant is increased in capacity, and in the event the GSD plant has capacity sufficient to accept such increased amount of sewage, then City agrees to pay to GSD a surcharge appropriate to the additional plant capacity used by City on account of this increased amount of sewage. Prior to the commencement of a year in which it would appear that City might transport to GSD for treatment wastewater, liquid wastes and sewage in excess of 4.18 million gallons per day (average daily flow on an annualized basis) and in any event prior to City's transporting a maximum annual flow in excess of that stated per year, City and GSD shall reach Agreement as to the amount of such surcharge and the terms and conditions of its payment. Both parties understand and agree that the payments called for by paragraphs 9-A and 9-B of this Agreement are intended to compensate and reimburse GSD for services rendered in the



treatment and disposal of wastewater, liquid wastes and sewage from City. Such payments shall not entitle City to any possessory or proprietory rights in the sewage treatment and disposal facility of GSD. GSD reserves the right to operate and maintain such facility and shall have sole discretion as to the methods of operation and the necessity for the nature and extent of improvements thereto.

- (4) In order to provide advance notice of future capital costs, the GSD shall, upon delivery to the U.S. E.P.A., provide the City with copies of any facilities plan for which the GSD intends to request participation by the City. Upon the submission of blue prints for such facility, copies shall also be provided to the City. The City shall be given notice, not less than four (4) weeks in advance, of any meeting in which a proposed bond ordinance or resolution may be placed on an agenda for adoption by the GSD or the City of Gary so as to allow the City to remonstrate or otherwise voice its opinions concerning such proposed facility.
- 10. Excess Loadings. In the event wastewater, liquid wastes and sewage are received by GSD from the City in excess of domestic loadings, BOD and Suspended Solids now established, the the City shall pay to GSD the rate per pound therefor as established in the GSD

rate ordinance. In the event of future changes in the cost of treatment of Suspended Solids and BOD based upon the studies in conformity with EPA requirements, the the City shall be subject to any such increased or decreased charges for such excessive pollutants. In the event that future charges are made for other excessive pollutants received by GSD, and such changes are uniformly applied throughout the region served by GSD and its contract customers, then the City shall be subject to such charges.

- Billing and Payment. The volume and strength of sewage accepted by GSD into its sewage system for processing from the City as measured by metering and sampling devices, identified above, shall be determined bi-monthly and the GSD shall bill the City within thirty (30) days thereafter for the charges applicable under rate schedules then in effect for the previous thirty (30) day metered period with said bill showing appropriate meter readings and loadings of BOD and Suspended Solids. Such charges shall commence on the first date sewage is accepted by the GSD into its sewage system from the City for processing. In the event that the City should fail to make payment to GSD of the amount of such invoice within the time so limited, the City shall be liable for and shall pay to GSD, as a penalty for delinquency in such payment, the same percentage of such invoice, that the sewage rate ordinance and schedule of GSD imposes upon all other users of GSD's sewage disposal facilities for similar delinquencies.
 - 12. Rate Covenants of the City. The City shall institute, maintain and enforce a system of charges in accordance with Section

204(b)(1), Public Law 92-500, as amended and supplemented, and the guidelines and regulations promulgated from time to time under by the U.S. Environmental Protection Agency.

Agreement shall be effective as to the cost of sewage transportation and treatment for services provided on and after the first date sewage is accepted by the GSD into its sewage system from the City for processing. Capital costs shall be paid to the GSD pursuant to paragraph 9-B of this Agreement. Operation and maintenance costs shall be paid bi-monthly.

14. Resolution of Disagreements.

A. The parties recognize that this Agreement puts into operation a user charge system and pollutant volume and loading restrictions, the application and results of which can be determined only by experience. The parties hereby agree that if either party believes the effect of this Agreement in any way is inequitable or unfair to its citizens such party may, by thirty (30) days written notice, request re-negotiation of any part of this Agreement, and the other party will in good faith participate in such negotiations.

If the parties are unable to solve their problems by negotiations, each party shall, within thirty (30) days after said negotiations fail, name an independent engineer, accountant, or other person not connected with either party who has knowledge in the disputed areas. The two named arbitrators shall name a third person to serve, and the three arbitrators shall determine the unresolved issues between the parties. The judgment or findings of a majority of the arbitrators shall be binding upon the parties

and a final determination of all unresolved issues.

During this period of re-negotiation and/or arbitration, the City shall continue to meet its financial obligations to the GSD in accordance with the provisions of this Agreement, and the GSD shall continue to accept and treat the City's sewage.

- additional charges which may be assessed against the GSD by various contractors in connection with projects 73E, 74B and C, and 74D. In addition, there are outstanding change orders which have yet to be approved by the Army Corps of Engineers and/or the U.S. E.P.A. It is also contemplated that additional change orders may be written on these or future projects and the following procedure is to be utilized for determining whether or not the City shall participate in the local share of such items:
 - (1) In the event a change order is determined to

 be grant eligible by both the State and Federal

 reviewing authorities, the City shall participate
 in the local share of such change order.
 - (2) In the event of a determination by a court of competent jurisdiction (whether Federal or State) of the appropriateness and reasonableness of additional charges incurred by a contractor and disputed by the GSD, the City shall participate in the local share of such court ordered sums.
 - (3) In the event of a proposed settlement of a disputed amount between the GSD and its various

contractors, the City shall elect to participate . in the local share of such settlement or in the alternative may elect to be responsible for the litigation of such disputed amount. In the event such dispute ultimately results in a cost or charge, whether by court order or otherwise, in excess of the proposed settlement, the City shall be responsible for its prorata share of the local costs of the initial settlement offer plus all of the excess award over and above the settlement In the event such dispute ultimately offer. results in a cost or charge, whether by court order or otherwise, less than the proposed settlement, the City shall be responsible for its prorata share of the local costs of said sum and in addition thereto shall receive as a credit against future billings the difference between the original settlement offer and the lesser charge awarded. It is understood between the GSD and the City that each party may retain counsel to participate in any litigated disputes for the purpose of protecting their respective interests herein.

(4) In the event the change order is determined to be non-eligible by the State or Federal agencies, the City shall have thirty (30) days from receipt of notice, from GSD of such

determination to elect to participate in the local share (as amended) of such change order. In the event the City elects not to participate in the local share of such change order and in the event the GSD wishes to pursue the matter, each party shall within thirty (30) days after said denial to participate, name an independent engineer accountant, or other person not connected with either party, who has knowledge in the disputed areas. The two named arbitrators shall name a third person to serve and the three arbitrators shall determine, within thirty (30) days whether or not the disputed change order is reasonable and necessary and within the scope of the project. The judgment or findings of a majority of the arbitrators shall be binding upon the parties and a final determination of all unresolved issues.

15. <u>Litigation</u>. The City agrees and undertakes to hold harmless and indemnify the GSD from any liability, damages, losses, expenses or costs and from any action, negligence, or failure to act on the part of the City in operation of its sewage system.

The GSD agrees and undertakes to hold harmless and indemnify the City from any liability, damages, losses, expenses or costs and from any action, negligence, or failure to act on the part of the GSD in operation of its sewage system and treatment facility. 16. Operations.

- A. Both parties will at all times use reasonable and diligent care to keep their sewer systems and treatment facilities in good operating condition.
- B. All parts of the sewage works and all records and accounts relating to the matters covered by this Agreement and the applicable sewer ordinances shall be made available for inspection by either party at any reasonable time.
- C. Both parties will cooperate with each other in the enforcement of their sewer related ordinances.
- D. Neither party shall be liable to the other for damages in case of an operational or system failure not due to its negligence or which is caused by an event beyond its control.
- E. In order that continuing cost data may be available as to the annual cash operation expenses of the wastewater treatment plant, transmission facilities, collection systems, etc., the GSD will install such records as may be necessary to accurately reflect the functional costs of the system. Such functional costs categories shall include, but not be limited to the following:
 - (1) Wastewater treatment plant costs including those specific costs associated with the treatment of BOD, Suspended Solids and other pollutants.
 - (2) Transmission costs including the costs of operating and maintaining specific lift stations and major transmission lines and mains.
 - (3) Costs of maintaining a collection systemthroughout the GSD.

- (4) Costs of accounting and billing customers within the GSD.
- (5) Costs of industrial surveillance within the GSD.
- (6) Costs of solid waste collection and disposal (if any).
- (7) General administrative costs of the system.
- (8) Costs of capital equipment.
- (9) Annual replacement cost by treatment plant, transmission (lift stations and interceptor sewers) and local and lateral sewers.
- F. Records shall be maintained disclosing the gross volume of flow and loadings reaching the wastewater treatment plant, together with such other flow factors as in-flow and infiltration amounts (in-flow and infiltration amounts may be assumed) received within the GSD, volume of use of specific lift stations by the GSD versus volume used by the City and such other data as may be necessary to determine the fair share of costs payable by the City. The City shall have the right to request, on an annual basis, the calibration of the volumetric metering equipment of the GSD and the right to be present during such calibration and shall be provided with a copy of any reports issued to the GSD regarding such calibration.
- G. The City shall have the right, through designated representatives, at any reasonable time, to review the records of the GSD for the purpose of determining compliance with this Agreement and to obtain such information as may be pertinent thereto.
- H. The GSD shall supply contemporaneously to the City annually a copy of the monthly report of operations as submitted to

the U.S. E.P.A. and the Indiana State Board of Health. The GSD shall also supply the City with annual financial statements.

- 17. Compliance with Rules, Regulations, Standards and Laws.

 The part of this Agreement shall comply with all state and federal regulations, standards and laws regarding the collection and treatment of sewage and the operation of their respective systems.

 In the event studies and/or rehabilitations are necessary or required as a condition of the GSD receiving a sewage grant, the City shall fully cooperate with the GSD to satisfy such requirements.
- 18. Annual Meeting. There shall be an annual meeting of the Board of Sanitary Commissioners of the GSD, together with the Board of Public Works and Safety of the City, for the purpose of reviewing matters of interest to all parties and to promote better understanding and a harmonious relationship between the communities in regard to the mutual problems associated with the collection and disposition of sanitary wastes. Discussions at such meetings shall include plans of the GSD and the City as to additional facilities and the financing thereof, requirements of State and Federal agencies and other subject matters to assist in the abatement of pollution in the area. The first meeting shall be at the GSD's office. All future meetings shall alternate between the two parties' offices. The annual meetings shall be held during December of each year. It is also contemplated that a review of annual charges for purposes of establishing the rate for the following year shall be discussed.
- 19. <u>Notices</u>. Any notices required or desired to be given under this Agreement may be served personally or by mail. Any notice

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given by mail shall be deemed to have been servied upon certified mailing. At the date of execution of this Agreement, the GSD's address is 844 Broadway, Gary, Indiana, Attention of the Director; the City's official address is 414 Main Street, Hobart, Indiana.

- 20. Benefits. All of the provisions of this Agreement shall inure to the benefit of, and shall be binding upon, the successors and assigns of this Agreement.
- 21. Changes in Regulatory Authority. Reference has been made throughout this Agreement to the Indiana State Board of Health, the Indiana Stream Pollution Control Board, the U.S. Environmental Protection Agency, and to other regulatory agencies, either by name or description. It is understood by and between the parties that any such reference to any regulatory agency shall apply not only to each regulatory agency as presently exists but also to any other agency which may assume the functions of such agency in the future.
- 22. Complete Agreement. The terms and provisions herein contained constitute the entire Agreement between the parties and shall supersede all previous Agreements and/or Contracts.

IN WITNESS WHEREOF, the parties hereto, acting by and through their duly authorized officers, have executed this instrument as of the day and year first above written.

		CITY OF HOBART, BY AND THROUGH ITS BOARD OF PUBLIC WORKS AND SAFETY
	By:	Bulni E. han fr.
		Charles J. Stone
		Sele A Cott
ATTEST:		

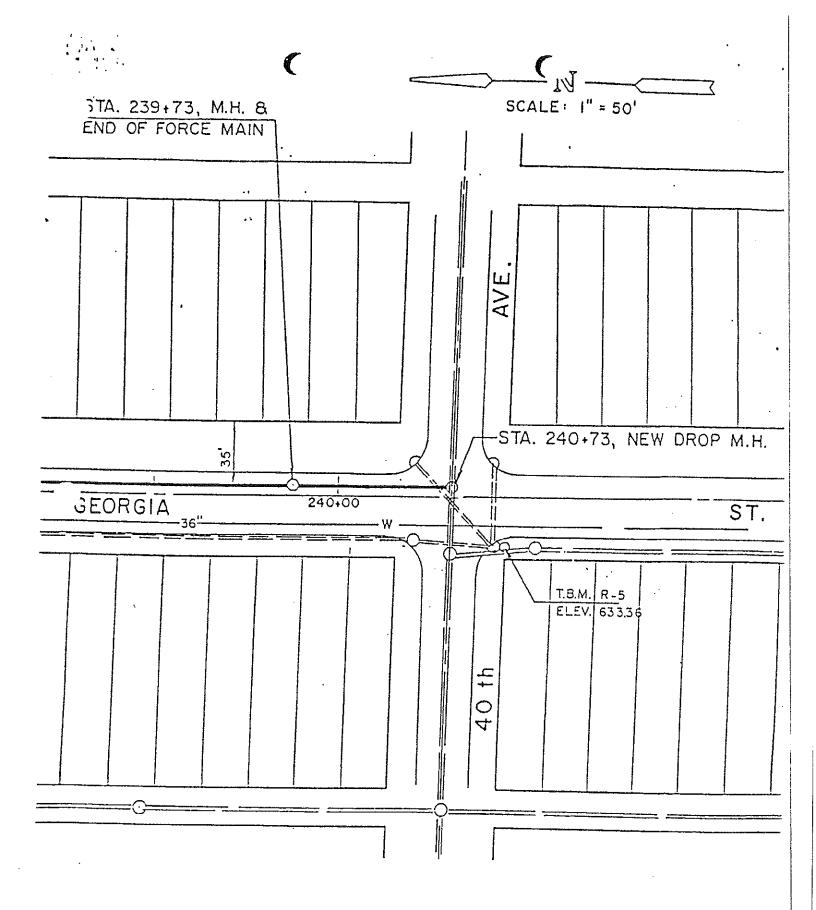


EXHIBIT "A"

INTERCONNECTION POINT

G.S.D. - HOBART THEATMENT AGREEMENT

CALCULATION OF OPERATION AND MAINTENANCE COSTS - 1982 (Budgeted)

Sewer Division ,366,496 1,366,496 Sewers Stations 2.178 Pumping 108,614 08,614 -0-101 Industrial Subscribers _0_ 33,636 33,636 .671 0 Surveillance 63,505 63,505 1.27% -0-40,435 .814 40,435 General -0--0-\$3,351,312 \$3,389,996 67.76% 38,684 Plant 1,475,110 \$5,002,602 1001 \$3,351,312 176,260 Totals

17,366 (10.08) 341,929 ó \$341,929 Finance Lump Sum \$ 900 - -\$359,295 Billing 6 \$359,295 þ 01 01 11,497(10.0%)-0-74,732 27.321 8,478 18,259 101 123,619 \$1,490,115 9 -0-5,936 1,520 6.734 1,450 8,906 \$117,520 0 þ þ ا ا s 1,833 472 448 2,753 2.091 5.3 \$ 36,389 þ 9 01 . 890 3,474 849 3.948 \$ 5,213 \$ 69,718 90 -0--0-9 2,216 567 541 2.51% 3,324 2,319 \$ 43,759 5.3% 103,470(90.0%) -0-156,296 (90.0%) -0--908 185,352 203,207 45,286 \$4,083,607 693,611 \$4,083,607 þ 1001 341,929 273,543 225,787 66,833 114,967 173,662 \$6,199,403 \$6,199,403 \$1,196,721 w Direct Costs per 1982 GSD Budget: allocation of costs to Hobart direct cost percentages Account & other as per plant, balance proportional to direct costs Indirect Cost Allocation: 691-plant 311-sewers Administration - 90% to Billing & collection Percentage of costs or Total costs allocated Manpower & Training per direct cost : per direct cost & per direct cost 1 1 of direct cost Sewer Division Surveillance Subtotal Subtotal Security Finance Plant Other

This exhibit is preliminary and presented for procedural purposes only. Final exhibits will be attached when final Note:

\$ 149,012

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CALCULATION OF PRELIMINARY HOBART RATE BASED ON 1982 BUGGET

. S. S.	\$1,		1 0			78075357			> .1059/1,000 gal.				+ 1,259,250) s 1990	
B.0.D.	\$1	101		ļ	\$1,225,082			16,869,510 1,000 gal.	1/6501. ¢	1bs. \$.0737/1b.	\$ 0334/15		's: (250,584	
Flow	\$1,633,443	149,012	2,319	-0-	\$1,786,703			16,869,510		16,632,987 lbs.	36,668,494	\$133,355 # 84,870 # 32,359	flow in 1,000	
Totals	Treatment plant costs allocated 40%; 30%; 30% \$4,083,607 Sounts		Subscribers (Hobart) 2,319)	24,236,867	Calculation of base rates:	flow: Divide by annual plant flow in 1,000's:	r 1,000 gallons (\$1,786,703 ÷ 16,869,410)		nds: ÷ 16,632,987}	S.S.: Divide by annual plant S.S. pounds: S.S. rate per pound (\$1,225,082 ; 36,668,494)	Estimated Annual Charges: Billing Base: Hobart Flow: 1,259,250 x \$.1059 = B.O.D.: 1,259,250 x 8.34 x 109.65 mg/l* = 1,105,550 x \$.0737 = S.S.: 1,259,250 x 8.34 x 92.25 mg/l* = 968,823 x \$.0334 = Total	Calculation of final flow rate: Divide by estimated annual MCD flow in 1,000's: (250,584 + 1,259,250)	Hobart rate per 1,000 gallons = c 1000

*Estimated Hobart B.O.D. and S.S. loadings

Nobart rate per 1,000 gallons - 5.1990

Note: This exhibit is preliminary and presented for procedural purposes only. Final exhibits will be attached when final costs become known.

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G.S.D. - HOBART TREATMENT AGREEMENT

· CALCULATION OF CAPITAL COSTS

Bond Series Final Maturity Date Issued Number of Bond Years	1993 12/1/62 <u>30 Years</u>	1990 9/1/75 15 Years	1998 7/1/77 20 Years	1999 7/24/78 20 Years	1994 6/28/83 10 Years
Original amount	\$9,900,000	\$4,500,000	\$6,000,000	\$5,000,000	\$9,000,000
Due Date: '		•		•	
1/1 Principal	\$.	\$	\$	\$	\$
1/1 Interest	•	•	*	¥	Ψ
l/l Fees					
6/1 Interest					
6/1 Fees					
7/1 Interest					
7/1 Fees		•			
12/1 Principal					
12/1 Interest					•
12/1 Fees				•	
Total	\$	\$	\$	\$	\$
Preliminary percentage of bond redemption to be charged to Hobart for debt					
service charge (see page 2)	3.28%	2.83%	6.97%	5.57%	-
Dollar amount due in 1986	\$	\$	\$	\$	\$

Note: This exhibit is preliminary and presented for procedural purposes only. Final exhibits will be attached when final costs become known.

ORIGINAL

Page 1

G.S.D. - HORART TREATMENT AGREEMENT

CALCULATION OF CAPITAL COSTS

The precentages of capital costs are based on local cost allocatable to the City of Hobart. These percentages may be revised after completion of the projects and final determination of local cost allocable to the City of Hobart. The procedure outlined below to determine the percentage of capital costs will be used when final costs are determined and for any future bond issues that may be allocatable to the City.

Procedure for Capital Cost Percentages:

Hobart's Local Share		. Hobart's		Hobart's
of Project Costs	X	Design Flow	=	Share of
Total Amount of G.S.D.		Project Design		Bond Issue
Bond Issue		Capacity		

Preliminary share of G.S.D. Bond Issue for Hobart:

Rond Issue	Hobart's Share of Local Construction Costs		Hobart's Share of Capacity		Hobart's Share of Annual Debt Service
1962	5 6,352,240 \$10,130,00	X	2.09 MGD 40 MGD	::	3.28%
1975	\$ 4,500,000 \$ 4,500,000	X	4.18 MGD 80 MGD	, =	6.97%
1977	\$ 6,000,000	Χ	4.18 MGD 60 MGD	=	6.97%
1978	<pre>5 4,000,000 5 5,000,000</pre>	X	4.18 MGD . 60 MGD	=	5.57%
1983	<u>\$ 2,200,000</u> \$ 9,000,000	X	4.18 MGP 60 MGD	=	1.70%
1986	\$ 7,500,000 \$ 7,500,000	X	4.18 MGD 40 MGD	=	10.45%

"C" Page 2

G.S.D. - HOBART TREATMENT AGRECHENT

CALCULATION OF CAPITAL COSTS

					•				
Sollar amount due in 1986	of bond redemption to becharged to Hobart for debt service charges {see page 1}	TOTAL Preliminary Percentage	12/1 Principal 12/1 Interest 12/1 Fees	7/1 Interest 7/1 Fees	6/1 Interest 6/1 Fees	1986: 1/1 Principal 1/1 Interest 1/1 Fees	Original amount Jue Pate:	of Bond Years	Rood Series Final Maturity Date Issued Number
\$ 12,600.76	3 • 2 8 8	\$384,169.50		\$ 23,925.00 \$ 99.00		\$333,000.00 \$29,700.00 \$445.50	\$ 9,900,000	30 Years	11 1993 12/1/62
\$ 25,750.26	6.97%	\$369,444.00	\$300,000.00 \$ 34,650.00 \$ 117.00		\$ 34,650.00 \$ 27.00	₩	\$ 4,500,000	15 Years	1990 9/1/75
\$ 35,542.31	6.97%	\$509,932,75	\$275,000.00 \$117,160.10 \$ 513.90		\$117,157.35 \$ 101.25	⊱	\$ 6,000,000	20 Years	1998 7/1/77
\$ 25,374.10	5.57%	\$455,519.30	\$225,000.00 \$115,131.50 \$ 117.75		\$115,129.80 \$ 110.25	₩	\$ 5,000,000	20 Year	1999
\$29,605.55	1.70%	\$1,741,502.80	\$ 700,000,00 \$ 520,437.50 \$ 347.40		\$ 520,437.50 \$ 280.40		\$ 9,000,000	10 Years	1994 6/28/83
\$ 105,575.	10.45%	\$1,010,290.00	\$ 300,000.00 \$ 354,975.00 \$ 190.00		\$ 354,975.00 \$ 150.00	₩	\$ 7,500,000	12 Years	1999

G.S.D. - HOBART TREATMENT AGREEMENT

CALCULATION OF CAPITAL COSTS

The percentages of capital costs are based on preliminary estimates of local cost allocable to the City of Hobart. These percentages may be revised after completion of the projects and final determination of local cost allocable to the City of Hobart. The procedure outlined below to determine the percentage of capital costs will be used when final costs are determined and for any future bond issues that may be allocable to the City.

Procedure for Capital Cost Percentages:

Hobart's Local Share Of Project Costs	۹,	Hobart's Design Flow		Hobart's Share of
Total Amount of G.S.D. Bond Issue	Х	Project Design Capacity	=	Bond Issue

Preliminary share of G.S.D. Bond Issue for Hobart:

Bond Issue	Hobart's Share of Local Construction Cost	:s	Hobart's Preliminary Share of Capacity		Hobart's Preliminary Thare of Annual Debt Service
1962	\$ 6,352,240 \$10,130,000	×	2.09 MGD 40 MGD	=	3.28%
1975	\$ 2,435,624 \$ 4,500,000	×	4.18 MGD 80 MGD	=	2.83%
1977	\$ 6,000,000 \$ 6,000,000	×	4.18 MGD 60 MGD	=	6.97%
1978	\$ 4,000,000 \$ 5,000,000	×	4.18 MGD 60 MGD	==	5.57%
1983	Preliminary lov	nal o	act not dotormi	n 2 h 1	la until

Preliminary local cost not determinable until future analysis. 7,500,000

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 2-2 – CITY OF LAKE STATION, INDIANA

WASTEWATER TREATMENT AGREEMENT

BETWEEN THE

CITY OF GARY SANITARY DISTRICT

AND THE

THE CITY OF LAKE STATION

Dated this 6th day of September 1984

SUPPLEMENTAL AGREEMENT

WITNESSETH:

WHEREAS the parties have heretofore entered into an agreement dated the 6th day of April, 1982, and

WHEREAS said agreement provided in Section E, Cost of Treatment, subsection 1-a, Rate, provides for annual review and adjustment, and

WHEREAS the 1982 and 1983 budgets for the Gary Sanitary District of \$6.2 Million was increased effective July 1, 1983 to \$7.2 Million reflecting an increase of 13%, as per Exhibit A;

NOW, THEREFORE, it is agreed as follows:

- 1. That the rate of payment as set forth in Section E, Sub-section 1-a of said agreement be increased by the same percentage rate, namely, thirteen (13%) per cent, from \$0.35 per 1000 gallons to \$0.39 per 1000 gallons of measured flow, and
- 2. That the bonded indebtedness for the 1985 Budget Year be in the amount of \$69,890.49, and the 1986 in amount of \$72,147.23, as per Exhibits B and C, and
 - 3. That said rates and amounts be effective as of January 1, 1984.

All other parts and provisions contained in the agreement referred to above shall remain in full force and effect.

IN WITNESS WHEREOF, the parties, acting by and through their duly authorized officers, have executed this instrument this $6\frac{\pi}{z}$ day of , 1984.

CITY OF LAKE STATION, INDIANA BOARD OF PUBLIC WORKS AND SAFETY

Lawis B. Chyl

ATTEST: Keleva L. This

APPROVED:

Mayor, City of Lake Station, Indiana

CITY OF GARY, INDIANA, BY AND THROUGH ITS BOARD OF SANITARY COMMISSIONERS OF THE SANITARY DISTRICT OF THE CITY OF GARY

BY Pres

Linami Filer V.P.

ATTEST:

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EXHIBIT "A"

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CITY OF LAXE STATION

BOND RETIREMENT PAYMENTS

TO GARY SANITARY DISTRICT

For 1985 Budget Year

Bond Series	1985 Princ. & Int.	Percentage to GSD	Amount Due	Total Due 1985
12/01/62	\$ 418,918.50	2.61	\$10,933.77	
09/01/75	436,248.00	2.50	10,906.20	
07/01/77	509,705.05	3.33	16,973.18	
12/01/78	451,568.80	3.33	15,037.24	
07/01/79	236,297.78	2.65	6,261.89	•
08/01/82	293,640.00	3.33	9,778.21	· · · · · · · · · · · · · · · · · · ·
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EXHIBIT C

CITY OF LAKE STATION BOND RETIREMENT PAYMENTS TO GARY SANITARY DISTRICT For 1986 Budget Year

Bond Series	1986 Princ. & Int.	Percentage to GSD	Amount Due by Bond Total Due 1986	•
12/01/62	\$ 407,335.50	2.51	\$10,631.46	
09/01/75	414,480.00	2.50	10,362.00	
07/01/77	518,981.75	3.33	17,282.09	
12/01/78	462,563.80	3.33	15,403.44	
07/01/79	234,895.18	2.65	6,224.72	
08/01/82	367,673.40	3.33	12,243.52	

\$72,147.23

BETWEEN

THE GARY SANITARY DISTRICT AND CITY OF LAKE STATION

THIS AGREEMENT (hereinafter referred to as "Agreement"), entered into this ______ day of _______. 1982 by and between the Gary Samitary District a municipal corporation of the City of Gary (hereinafter referred to as "District"), and City of Lake Station a corporation of the State of Indiana (hereinafter referred to as "Lake Station").

WITNESSETH:

WHEREAS, District owns and operates a sewage treatment plant that is presently receiving Federal and State Grant assistance in the expansion of the capacity thereof, and which now has a capacity available for the treatment of sawage material from Lake Station, and

WHEREAS, Lake Station is an Indiana Corporation which holds Certificates of Tetritorial Authority from the Public Service Commission of Indiana to render sewage disposal service within certain areas in Lake County, Indiana, and desires to contract with District to treat sewage material collected by Lake Station; and

WHEREAS, during the term of this Agreement it is anticipated there will be technological and administrative changes which will affect the treatment of sewage material and that said treatment may be handled more efficiently if Lake Station does not deliver all sewage material passing through its system to the District for processing, and, accordingly, it is understood by and between the parties hereto that Lake Station is not hereby required to deliver all or any specific amount of its sewage material to the District for treatment, but may treat the same in facilities provided by Lake Station or in other publicly or privately owned facilities.

NOW, THEREFORE, the District agrees to provide Lake Station with sewage treatment service through Lake Station's connection with the District sewer system for sewage treatment pursuant to the following terms and conditions:

- 1. Effective Date: It is understood and agreed between the parties that this Agreement shall become effective after its execution and approval by the Board of Sanitary Commissioners of the Gary Sanitary District and the City of Lake Station Board of Public Works and Safety and such regulatory agencies as may be legally required.
- 2. Term of Agreement: This Agreement shall continue in full force and effect for twenty (20) consecutive years from the effective date of this Agreement.
- 3. <u>Interconnection</u>: District agrees to accept for treatment in its sewage system, sewage material delivered by Lake Station at the line located along 15th Avenue and East of Clay Street Pump Station as shown on Exhibit "A" attached hereto and made a part hereof.

The engineering plans and specifications for any additional transporting gravity sewer line, pumping stations, measuring devices and appurtenances to connect Lake Station's and District's systems at the tapin point, with copies of such plans and specifications to be in the hands of each party at least two (2) weeks before the same are submitted for approval to the Indiana Stream Pollution Control Board and the Indiana Board of Health in order to allow each party to review and make written comment with respect to said submissions.

It is expressly understood and agreed between the parties that all costs of the tap-in, including the planning, inspection and construction of any transporting gravity sewer line to said tap-in point shall be borne exclusively by Lake Station.

- 4. Acceptance and Treatment of Sewage.
- (A) Responsibility for Delivery and Transportation. Lake Station shall be solely responsible for delivery of the sewage material in a form suitable for passage through the Gary Sanitary District sewer line system to the metering point and/or tap-in point. Said sewage material shall be delivered from the Lake Station sewage line system to the tap-in point by either a gravity sewer line or force main. District shall be solely responsible for transporting the sewage material from the metering point and delivering same to its sewage treatment facilities.

- (B) Treatment. District shall be solely responsible for the proper treatment and transportation of the sewage materials received from Lake Station in accordance with the requirements and standards of the Indiana Stream Pollution Control Board, Indiana State Board of Health and the Environmental Protection Agency.
- (C) Sewage Materials Accepted. Lake Station shall comply in every applicable regard with Sewer Use Code #4905 of the Gary Sanitary District and User Charge Ordinance #5516 of 1979 as amended from time to time thereafter, and as applicable to all users of the system and specifically all applicable Rules and Regulations of the Environmental Protection Agency. District shall be under no obligation whatever to accept any type of waste or toxic materials, if said waste or material is a prohibited discharge under the rules of any regulatory agency having jurisdiction over the District's sewage treatment system. District has no obligation to accept radioactive material. It is recognized by Lake Station that the Sewer Use Code of the City of Gary, Indiana of 1974, may be amended from time to time so as to change the types of waste which must be accepted by District and the parties specifically agree to such amendments; however, this shall not constitute a waiver of Lake Station's right to testify or oppose passage of said ordinances and amendments.

Upon discovery that unacceptable sewage materials as defined by Sewer Use Code Ordinance of the City of Gary, Indiana of 1974, as amended from time to time, or waste or materials deemed unacceptable pursuant to rules and regulations duly promulgated by any regulatory agency having jurisdiction, are being transmissed by the Lake Station connection to District's sewer system:

- (1) District shall immediately notify Lake Station of such unacceptable sewage or materials, including the location, time or times, the nature of such unacceptable sewage or waste, and such other information as may be available.
- (2) Upon verbal notification and confirmation thereof in writing and Lake Station's ability to identify the user responsible for the delivery of such unacceptable sewage materials, Lake Station shall notify that user to immediately cease delivery of such materials and/or waste within twentyfour (24) hours-

- (3) District shall, in the event Lake Station is unable to identify the location, time and source of such unacceptable sewage, cooperate with Lake Station in locating such source.

 The Lake Station will use its best efforts to correct or cut off the user delivering unacceptable sewage materials to Lake Sation's and District's sewer systems.
- or materials through take Station's Interconnection Point to
 District's sewer system, cannot be ascertained after diligent
 inquiry by take Station and District, then take Station and
 the District shall give notice immediately to the Technical
 Secretary of the Indiana Stream Pollution Control Board, and
 request that an emergency investigation be instigated forwith
 in regard to the matter. Said emergency investigation shall
 determine the severity of the damage to District's collection
 and treatment facilities resulting from the discharge of such
 umacceptable sewage or materials. After such emergency investigation, the Technical Secretary of the Indiana Stream
 Pollution Control Board may issue an order mandating take Station
 to cease delivering such unacceptable sewage.
- (5) In the event Lake Station does not comply with said order, then the District shall have the right to cease receiving sewage from Lake Station at the interconnection point, and may disconnect at Lake Station's expense, or take other appropriate action consistent with the order of the Technical Secretary to the Indiana Stream Pollution Control Board until the cause for such action is remedied to the satisfaction of the District, Environmental Protection Agency and Indiana Stream Pollution Control.

 Board. Provided, however, that the right to cease servicing the entire system of Lake Station, as in this paragraph set forth, shall be only for the delivering of unacceptable sewage or waste materials, as provided herein.

2 MGD.

- (E) Cost of Treatment.
- (la) Rate. Lake State agrees to pay to the District for conveyance, treatment and billing of sewage flow received at the metering point both in respect of the volume and composition of such flow as set our in the contract rate attached hereto as Exhibit "B".

Lake Station's current indebtedness as of February, 1982, to the District for conveyance, treatment and billing of sewage flow is \$143,602.48 dollars.

Lake Station will make monthly payments in the amount of \$4,000.00 dollars to reduce and eliminate said debt.

The rates set forth in Exhibit "B", \$.35/1000 gallons (\$350.00/mg), it is understood by the parties, will be subject to annual review and adjustment whenever the rates charged to all other contract users are reviewed and adjusted.

(1b) The bond indebtness charge shall be calculated based upon the design flow currently estimated at 2 MGD.

Should this design flow be increased at any time the District reserves the right to charge for the excess flow over 2 MGD from the original date of this contract.

The bonded indebtness based on a design average flow of 2 MGD shall be \$64,146/year as shown on Exhibit "C", attached hereto.

- (1c) The surcharge shall be calculated as per the User Charge Ordinance #15516 and shall be computed as follows: \$.12/pound for B.O.D. in excess of 200 Mg/l. Surcharge rate \$.08/pound for S.S. in excess of 250 Mg/l.
- (2) Metering and Sampling Devices. Lake Station shall properly install and maintain the required metering for the purpose of measuring the volume of sewage material delivered by Lake Station to the tap-in point for conveyance and treatment. Said metering shall be constructed in a manner and in a place acceptable to the District. The design of meters and metering points shall be approved by the District.

Each such device shall be subject to the inspection and approval of the District at all reasonable times during normal business hours and shall provide the District with a key to enter the building for inspection and reading of the meter.

Lake Station shall have the privileges with regards to any metering installed and maintained by the District. For said purposes, and for the purposes of reading and recording data from said meters, each party shall at all times have complete and free access to said metering point and devices.

Notwithstanding the above Lake Station may, at its expense, install a temporary metering device upon execution hereof for purposes of measuring the flow of sewage at the tap-in point until such time as the permanent metering device has been designed, approved and installed. The temporary metering device shall be replaced by the Lake Station with the permanent metering device within six (6) munths of its installation.

The cost of planning, designing, building and installing any additional metering for an additional tap-in point including acquisition of real estate shall be borne exclusively by Lake Station. In addition, Lake Station shall assume complete responsibility, including costs, for the installation, maintenance, and repair of said metering device and will further defray any costs incurred by reason of testing of the metering devices as requests may be made by the District from time to time, provided such requests are reasonable as to frequency and nature of tests required.

Sampling devices which are capable of providing a twenty-four (24) hour composit sample taken hourly shall be installed and maintained by the District. The location of such sampling devices and the specifications thereof shall be approved by the District. Composit twenty-four (24) hour sampling will be conducted at the minimum of weekly intervals by the District. Parameters to be tested shall include PH, suspended solids, COD, BOD, phosphorus, metal ions, total nitrogen and other testing as required to satisfy Indiana Stream Pollution Control Board and the United States Environmental Protection Agency Regulations.

When the BOD and suspended solid levels exceed the limits in this Agreement by a period of three (3) days, the District will advise Lake Station of the excessive limits. Lake Station shall three (3) days in which to correct said excessive limits, and if not correct within said three (3) day period, the District shall impose the surcharge from the date of the first discovery of the excessive limitations.

Lake Station, upon receiving notice that it exceeds the limitations of BOD and suspended solid limitations, shall be responsible to determine the place or places of business improperly discharging, and shall further be responsible for placing the surcharge upon the place or places of business responsible for the excessive discharge.

Material samples as received from the sampling devices shall be available to both contracting parties. In the event the District provides to Lake Station testing of samples, the cost of providing these tests shall be paid by Lake Station. The results of tests on samples shall be exchanged between the parties.

- into its sewage system for processing from Lake Station as measured by such metering devices shall be determined on or about the first monday of each calendar month and the District shall bill Lake Station within thirty (30) days thereafter for the charges applicable under rate schedules then in effect for the previous thirty (30) day metered period with said bill showing appropriate meter readings. Such charges shall commence on the first date sewage is accepted by the District into its sewage system from Lake Station for processing. Payment shall be made by Lake Station promptly within thirty (30) days after being billed by the District.
 - (4) Rate Covenants of Lake Station.
- (A) Lake Station shall institute, maintain and enforce a system of charges in accordance with Section 204 (b)(l), Public Law 92-500 as amended and supplemented and the guidelines and regulations promulgated from time to time under by the Environmental Protection Agency.

- (3) District shall cooperate with Lake Station in adopting and enforcing rates, rules and regulations for users of the sewage system of the Lake Station which are in conformity with the applicable regulatory requirements adopted enforced by the District for the purpose of permitting the District, on continuing basis, to be awarded grants from the State of Indiana and from the Environmental Protection Agency and other governmental agencies which may not in the future offer grants incident to the treatment and collection of sewage.
- (5) Billing. District will be responsible for reading the metering devices at the metering point and billing the Lake : Station therefore in accordance with rate schedules then in effect.
- (5) <u>Litication</u>. The Lake Station agrees and undertakes to hold harmless, indemnify the District from any liability damages, losses, expenses or costs and from any action, negligence, or failure to act on the part of Lake Station in operation of its sewage system.
- (7). Compliance with Rules, Regulations, Standards and Laws. The part of this Agreement shall comply with all state and federal regulations, standards, and laws regarding the collection and treatment of sewage and the operation of their respective systems. In the event studies and/or rehabilitations are necessary to required as a condition of District receiving a sewage grant, Lake Station shall fully cooperate with District to satisfy such requirements.
- (8) Notices. Any notices required or desired to be given under this Agreement may be served personally or by mail. Any notice given by mail shall be deemed to have been served upon certified mailing. At the date of the execution of this Agreement, the District address is 844 Broadway, Attention of the Director; and Lake Station's official address is 2919 Central Avenue, Lake Station, Indiana, Attention of the Mayor.

- (9) Benefits. All of the provisions of this Agreement shall insure to the benefit of, and shall be binding upon the successor and assigns of this Agreement.
- made throughout this Agreement to the Public Service Commission of Indiana, the Indiana State Board of Health, the Indiana Stream Pollution Control Board, the Environmental Protection Agency, and to other regulatory agencies, either by name or be description, it is understood by and between the parties that any such reference to any regulatory agency shall apply not only to such regulatory agencies as presently exists but also to any other agency which may assume the functions of such agency in the future.
- (11) Complete Agreement. The terms and provisions herein contained constitute the entire Agreement between the parties and shall supercede all previous Agreements and/or Contracts.

IN WITNESS WHEREOF, the parties hereto, acting by and through their duly authorized offices, have executed this instrument as of the day and year first above written.

> THE CITY OF LAKE STATION, INDIANA BOARD OF PUBLIC WORKS AND SAFETY

BV:

- Chel H Baller

Donce B. Creath

ATTEST:

Getty Somilag

AFPROVED:

MAYOR City of Laxe Station, IN

ADOPTED AND APPROVED b	y the Common Council of the City of
Lake Station, Lake County,	Indiana this 15th day of Antil
1982 Ordin	nance #82-21
	en e
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ATTEST: CLERK-TREXSURER	in the second se
	CITY OF GARY, INDIANA, BY AND THROUTS BOARD OF SANITARY COMMISSIONERS OF THE SANITARY DISTRICT OF THE CITOF GARY
	BY:
	allich America
	Strond Fifty Kety Fresident
	Maria Secre TARY
ATTEST:	•
SECRETARY	

ORDINANCE TO APPROVE SEWER TREATMENT AGREEMENT BETWEEN THE GARY SANITATION DISTRICT AND CITY OF LAKE STATION, INDIANA.

WHEREAS, the City of Lake Station, Indiana, by its Board of Works, has formally approved and recommends to the City Council that the agreement and contract be accepted by ordinance pursuant to

WHEREAS, the City of Lake Station must enter into said agreement with the Gary Sanitation District in that said district is the only authorized district to treat the sewage material for the City of Lake Station, it is therefore mandatory that a contract he entered into by and between the parties,

THEREFORE BE IT RESOLVED that the sewage treatment agreement between the Gary Sanitation District and the City of Lake Station approved on April 6, 1982, by the Board of Works be approved in its entirety and adopted by the Common Council of the City of Lake Station. That said contract is attached hereto as Exhibit "A" and made a part hereof this ordinance.

PASSED AND ADOPTED by the Common Council of the City of Lake Statation, Indiana, upon this the 15th day of April, 1982.

Carl H Miller Presiding Officer

Attest:

Betty Sonntag

Presented by me to the Mayor for his approval and signature this the 15th day of April, 1982.

Betty Sonntag Clerk-Troasurer

This ordinance approved and signed by me this <a>[5] day of April,

Mayor

3625 Central Avenue Lake Station, Indiana 46405

Мау 12, 1982

Gary Sanitary District P.O. Eox 388 Gary, Indiana 46402

Dear Sir:

In reference to our phone conversation, 5/12/82, enclosed is a copy of the Ordinance no. 82-21. This ordinance was passed 1/15/82 and is an agreement between the Gary Samitation District and the City of Lake Station, Indiana.

If you are in need of any further information, please feel free to contact me, at the above address.

Sincerely,

Teresa Jones, Secretary to the Mayor of Lake Station

RECEIVED

MAY. 1 4 1982

GARY SANITARY DISTRICT EXHIBIT A

, **

EXHIBIT "B"

NUNICIPAL SEWAGE WORKS

Calculations for Determining the 1981 Treatment Nate

	Billing Total	} }_	\$3,293,147	234,425	\$5,002,682	1	211 A COO A LE C. COO A LES	<u>.</u>	1 3 4 6 8	081 577	690 986	\$114,000 \$1,197,310	\$114,000 \$6,200,000		_	\$ -0- \$4,714,048		•	\$4.440.446	121,163		\$41,114,040						
Sewer Division	Sewers		(A	7 200 400	\$1,366,496		•	3 136,978		716,02		\$ 157,895	\$1,524,391		101	\$ 152,439	ite	ć	. \$1,332,134			\$1,112,134				. \$ 0.077		
Sewer	Pumping Stations		vs-		s 108,614			\$ 10,887	•	799'T		\$ 12,549	\$ 121,163	-	1001	\$ 121,163	e Station 1981 Rate		\$1,332,134	. •		1,332,134		:11,436,836 lbs.	\$ 0.116		•	; 1 of 2
	Treatment Plant		\$3,293,147	234,425	\$3,527,572	,	;	r \$ 353,605		203,201	456 063	\$ 912,074	\$4,440,446	٠.		\$4,440,446	Calculation of Lake		\$1,776,178	121,163	152, 439	\$2,049,786	÷13,8	:				Ракс
		Direct costs per 1981 GSD budget	Plant	Industrial surveillance	Sever division Total	Allocation of indirect costs.	Finance as one managed & to so bit monthly	" ວິ	Administrative: 90% to plant, remainder	proportional to direct costs	Manpower training, security, and	otieti pet utrech cush rakto Total	Total costs as allocated	Sercentage of above costs in which Lake Station	should share	Amount in which take Station should share	Calc		Treatment plant costs allocated 40% 30% 30%	. Fumping stations	Sekurs	Total	Calculation of base rates Flow in 1,000'S Plow in 1,000'S	EOD: divide by annual plant BOD pounds	BOD rate per pound	. 25; divide by annual plant 55 pounds 55 rate ner pound		

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MUNICIPAL SEGAGE WORKS Lake Station, Indiana

Calculations for Determing the 1981 Treatment Rate

(Continued)

Estimated annual charges Estimated annual Charges Hilling base

x 469,761(3) x 542,655(2) \$ 62,948 x 485,571(1) \$ 71,865 Calculation of final flow rate Divide by estimated annual Lake Station Flow in thousends

25

ВОБ

Plou

\$ 170,98

485,57 \$ 0.35

Rate Fer 1,000 gallons

Gallons in thousands .

485.571 million x 8.34 x 134 mg/l (19au average loadings) (2)

485.571 million x 8.34'x ll6 mg/l (1980 average loading)

•		771					e pald \$60,573.0
		1979 Fssuc (\$1,3 Mill.)	(2.65%)	95,195 (2,522)	<u>.</u> .	226,217 (5,995)	' (}-Amount in bracket, to be paid by Lake Station. TOTAL PAYMENT DUE IN 1980 = \$60,573.0
	\$7	1978 Issua (\$5 Mill.)	(3,334)	461,599 (15,371)		476,599	()-Amoun by Lal TOTAL PAYN
	AKE STATION	1977 Issue (\$6 Mill.i)	(3,33%)	497,636		512,166 (17,055)	
Bonded Indebtness	GARY SANITARY DISTRICT-LAKE STATION JAKE STATION'S PAYMENTS OF G.S.D. DE						
	GARY SANITA	1975 !Issuc [4.5'Mill	(2.5%)	546,588		\$23,320 (13,083)	
		1962 18500 (\$9.59 Mill	(2,614)	476,834 (†2,445)		465,281 (12,143)	
	, 51	PAYMENT DUE DATE			e e anno e an		
	and a second of	YEAR		1980	4 (4.7)	1981	

COMPUTATION OF CAPITAL COST (Debt. Service)
9/1/75 Bond Issue (\$4,500,000.00)

Treatment Plant Expansion, Phase A

Lake Station Share for the payment of Bond Issue =

2.00 M.G.D. (Design Flow assumed in the year 2000)
80 M.G.D. (Design Flow in the year 2000)

= 2.50% of Annual Bond and Interest Payments

COMPUTATION OF CAPITAL COST ... To be re-imbursed by Lake Station

1963 Series + 1965 Series = \$10,130,000.00

Project A - Main Treatment Plant Expansion - \$ 6,289,025.25 }

) \$7,489,053.90 Project B - Miller Pumping Station, 15 & Clay- \$ 1,200,033.65)

Project C - Miller Relief Station,

Marquette Park Storm Water Sewer and Pumping Station - \$ 2,563,796.21

Bond and Legal Costs, etc.

- \$ 101,823,10

Total:

\$10,127,673.21

Administrative Cost Allocable

to Lake Station and Gary: \$101,823.10 x 7,489,058.90 + 10,127,678.21 = \$ 75,294.57

Total Cost Allocable to

Lake Station and Gary: \$6,289,025.25 + 1,200,033.65 + 75,294.57 = \$7,564,353.47

Lake Station Share for the

Payment of Bond Issue: $\frac{\$ \ 7,564,353.47}{\$ 10,130,000.00} \times \frac{1.4}{40} \text{ MGD} = 2.614 \text{ of Annual Bond & Interest Pt}$

COMPUTATION OF CAPITAL COST (Debt Service)

1977 Bond Issue (\$6,000,000.00)

Expansion of Secondary Treatment Facilities ...

Lake Station Share for the payment of Bond Issue

 $= \frac{2.00 \text{ MGD}}{60 \text{ MGD}} = 3.33\%$

Annual Bond & Interest Payment

Page 4 of 6 ;

COMPUTATION OF CAPITAL COST (Debt. Service) to be reimbursed by Lake Station

1979 Bond Issue (\$1.3 Million), Plant Rehabilitation

Total Cost Allocable to Lake Station and Gary = \$ 1,000,000.00

Lake station share for the bond issue

 $= \frac{1,000,000.00}{1,300,000.00} \times \frac{2 \quad M.G.D.}{60 \quad M.G.D.}$

2.565 Annual Bond and Interest Payment

Page 6 of 6

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Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 2-3 – MERRILLVILLE CONSERVANCY DISTRICT

WASTEWATER TREATMENT AGREEMENT

BETWEEN THE

CITY OF GARY SANITARY DISTRICT

AND THE

MERRILLVILLE CONSERVANCY DISTRICT

Dated this 10th day of October 1985

WASTEWATER TREATMENT AGREEMENT

BETWEEN THE

CITY OF GARY SANITARY DISTRICT

, AND THE

MERRILLVILLE CONSERVANCY DISTRICT

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WASTEWATER TREATMENT AGREEMENT BETWEEN THE GARY SANITARY DISTRICT

AND

THE MERRILLVILLE CONSERVANCY DISTRICT

this 16+15 day of October, 1995, by and between the Gary Sanitary District, a special taxing district of the City of Gary (hereinafter referred to as "GSD"), and the Merrillville Conservancy District, a special taxing district of the State of Indiana (hereinafter referred to as "MCD").

INTRODUCTION

WHEREAS, MCD does not have adequate means of disposing of its wastewater from the MCD; and

WHEREAS, GSD owns and operates an approved wastewater treatment plant that has an approved user charge system and has capacity available for the treatment of wastewater from the MCD; and

WHEREAS, MCD is a special taxing district which renders wastewater disposal service within certain areas in Lake County, Indiana, and desires to contract with GSD to treat wastewater collected by MCD; and

WHEREAS, MCD has connected its sewer system to the wastewater treatment and disposal facilities of GSD and will transport wastewater generated within the jurisdiction of the MCD and its contractual customers to GSD plant to be treated by GSD. –

. . . · · -

WHEREAS, MCD previously entered into a Sewage Treatment Agreement with the GSD the dated August 24, I982, and amended February 18, I991.

whereas, MCD and GSD are now desirous of renegotiating and restating said Agreement and all amendments thereto;

NOW, THEREFORE, it is hereby agreed by and between the parties hereto that GSD will accept from MCD the wastewater of MCD and its contractual customers and will treat and dispose of the same in a proper manner at its treatment plant subject to the following coverants and conditions.

1. <u>DEFINITIONS</u>

- A. "USEPA" shall mean United State Environmental Protection Agency.
- B₊ "IDEM" shall mean Indiana Department of Environmental...

 Management.
- C. "Wastewater" shall mean a combination of the liquid and water-carried pollutants from residences, business buildings, institutions and industrial establishments, together with such ground, surface and storm waters as may be present.
- D. "Flow" shall mean the gallons of wastewater transmitted or received.

 Flow shall include domestic loadings of CBOD, Phosphorus, Ammonia and suspended solids and such other conventional pollutants as may be acceptable.
- E. "Biochemical Oxygen Demand (or BOD)" of polluted waters shall mean the quantity of dissolved oxygen in milligrams per liter required during stabilization of the decomposable organic matter by aerobic biochemical action under standard laboratory procedures for five (5) days at 20 degrees Centigrade. The laboratory determinations shall

be made in accordance with procedures set forth in "Standard Methods".

- F. "CBOD" Carbonaceous Biochemical Oxygen Demand shall mean a quantitative measurement of the amount of dissolved oxygen required for the biological oxidation of carbon containing compounds in a sample. The laboratory determinations shall be made in accordance with procedures set forth in "Standard Methods".
- G. "Suspended Solids" shall mean solids which either float on the surface of or are in suspension in wastewater or other liquid and which are removable by laboratory filtration. Their concentration shall be expressed in milligrams per liter. Quantitative determinations shall be made in accordance with procedures set forth in "Standard Methods".
- H. "Wastewater Treatment Plant" shall mean the wastewater treatment plant operated by GSD and located at Gary Indiana.
- i. "Transmission!Facilities" shall mean large transmission lines, force mains and lift stations necessary for the transportation of wastewater to the wastewater treatment plant.
- J. "Collection System" shall mean the system of local sewers necessary to accept effluent from individual residences, businesses and industries throughout GSD or MCD.
- K. "Wastewater facilities" shall mean the combination of "wastewater treatment plant", "transmission facilities", and "collection system".
- L. "MCD" shall mean the Merrillville Conservancy District and shall include for purposes of definition, flows collected from conventional sources and GSD

approved non-conventional sources.

- M. "Operation and Maintenance" means the associated costs of manpower, energy, materials and chemicals and other costs necessary to produce a wastewater that will meet the effluent requirements and to keep equipment functioning at satisfactory efficiencies.
- N. "Replacement" means expenditures for obtaining and installing equipment, accessories or appurtenances which are necessary during the service life of the wastewater facilities to maintain the capacity and performance for which such facilities were designed and constructed.
- O. "National Pollutant Discharge Elimination System (NPDES)" means the federal system for issuing, modifying, suspending, revoking and reissuing, terminating, monitoring and enforcing discharge permits pursuant to the Clean Water Act, as amended.
- P. "Sewer Use Ordinance" means the ordinance, resolution, or other local rules regulating use of and discharge into GSD's wastewater facilities.

2. EFFECTIVE DATE

It is understood and agreed between the parties that this Agreement shall become effective after its execution and approval by the Board of Sanitary Commissioners of GSD and the Board of Directors of the MCD and such regulatory agencies as may be legally required.

3. TERM OF AGREEMENT

A. MCD shall have a right for as long as GSD operates its wastewater facilities, to use its facilities for the transportation and treatment of its wastewater or until

this agreement is terminated as provided herein.

B. In the event MCD constructs its own wastewater treatment plant or becomes connected to another system for treatment, MCD may, at its option, terminate this Agreement upon giving GSD thirty (30) days written notice of MCD's intention to do so, and specifying the effective date of the termination.

4. COMPLIANCE WITH APPLICABLE LAWS

- A. MCD shall adopt, maintain and enforce the following in such manner as to at all times comply with the "Federal Water Pollution Control Act Amendments of 1972" (Public Law 92-500); particularly Title II, Section 204(b), and the Federal Regulations as contained in the Federal Register Volume 39, No. 29, dated February 11, 1974, and any further or supplementary laws and amendments thereto, in order to permit GSD, on a continuing basis, to receive grants from the USEPA and the State of Indiana, which may, in the future, offer grants incidental to the collection and treatment of wastewater:
 - (1) A system of charges to assure that each recipient of waste treatment services within its jurisdiction payfits proportionate share of the costs of operation, maintenance and replacement of the wastewater facilities (User Charge System).
 - (2) An Ordinance, if not already covered by MCD's existing ordinances, prohibiting the discharge of any wastewater or polluted water prohibited by the Sewer Use Ordinance and ensuring that new sewers and connections to the sewer system are properly designed and constructed.
 - F In the construction, maintenance and operation of its wastewater

facilities. MCD will comply with all applicable state and federal laws.

C. GSD shall enforce its User Charge and Sewer Use Ordinances beginning at the points of discharge from MCD into GSD's wastewater facilities.

5. <u>INTERCONNECTION</u>

GSD agrees to accept for treatment in its wastewater facilities, wastewater, delivered by MCD at the lines located at Chase Street and 35th Avenue; 46th Avenue and Alley 1-East; and at 46th Avenue and Massachusetts Street as shown on EXHIBIT A, which is attached hereto and made a part hereof. [See, APPENDIX OF EXHIBITS, infra at p. A-1].

The engineering plans and specifications for any additional connections, measuring devices, or appurtenances to connect to GSD's system shall be submitted to GSD at least two (2) weeks before the same are submitted for approval to the IDEM in order to allow GSD to review and make written comment with respect to said submissions.

It is expressly understood and agreed between the parties that all costs of the connection, including the planning, inspection and construction of any transporting gravity sewer line to said connection point shall be borne exclusively by MCD.

6. CAPACITY ALLOCATIONS

- A. Wastewater received by GSD from MCD shall meet all criteria of GSD as to acceptable materials, acceptable volume and loadings, and such other criteria as may now or in the future be equitably applied throughout the region served by GSD in meeting requirements of IDEM or the USEPA.
 - B. Upon discovery that unacceptable substances or materials as defined

by the Sewer Use Ordinance of the City of Gary, Indiana, as amended from time to time, or waste or materials deemed unacceptable pursuant to rules and regulations duly promulgated by the USEPA or IDEM, are being discharged by MCD to GSD, MCD shall be notified and MCD shall forthwith take appropriate steps to insure that such unacceptable materials are excluded from future discharges to GSD. In the event of failure of MCD to take such steps, then MCD shall be liable for any additional costs at the wastewater treatment plant in connection with such unacceptable materials, including any fines as may be levied by IDEM or USEPA for noncompliance with GSD's NPDES permit. Upon discovery that any unacceptable substances or materials are being discharged as set forth above:

- (1) GSD shall immediately notify MCD of such unacceptable wastewater or materials, including the location, time or times, the nature of such unacceptable wastewater or materials, and such other information as may be available.
- (2) Upon verbal notification and confirmation thereof in writing and the MCD's ability to identify the user responsible for the delivery of such unacceptable wastewater or materials MCD shall notify that user to immediately cease delivery of such materials and/or waste within twenty-four (24) hours.
- (3) GSD shall, in the event MCD is unable to identify the location, time and source of such unacceptable wastewater or materials, cooperate with MCD in locating such source. MCD will use its best efforts to correct

or cut off the user delivering unacceptable wastewater or materials to the parties' sewer system.

- wastewater or materials through MCD interconnection points to GSD sewer system, cannot be ascertained after diligent inquiry by MCD and GSD, then MCD and GSD shall give notice immediately to IDEM, and request that an emergency investigation be instigated forthwith in regard to the matter. Said emergency investigation shall determine the severity of the damage to GSD's collection and treatment facilities resulting from the discharge of such unacceptable wastewater or materials. After such emergency investigation, IDEM may issue an order mandating MCD to cease delivering such unacceptable wastewater or materials.
- GSD shall have the right to cease receiving sewage from MCD at the violating interconnection point, and may dissonnect at MCD's expense, or take other appropriate action consistent with the order of the IDEM until the cause for such action is remedied to the satisfaction of GSD, USEPA, and IDEM. Provided, however, that the right to cease servicing the entire system of MCD, as in this paragraph set forth, shall be only for the delivering of unacceptable wastewater or materials, as provided herein.
- GSD shall accept, transport and treat all wastewater received by MCD and delivered to GSD including reasonable inflow and infiltration in connection therewith,

together with industrial flow and loadings, all in the same manner as such wastewater is acceptable throughout the total region served by GSD.

D. In recognition of annual capital costs hereafter assigned to MCD and agreed to between the parties, it is further agreed that MCD shall have a right to the use of wastewater treatment facilities equal to an average of daily flow of 8.4 million gallons per day determined on the basis of twelve-months of flow. It is understood between the parties that MCD will have three points of connection to GSD's lines. At the connection point located at 35th Avenue and Chase Street, MCD shall have the right to discharge a daily peak flow, during any 24 hour period, of 30.1 million gallons per day. At the connection points located at 46th Avenue and Alley 1-East, and 46th Avenue and Massachusetts Street, MCD shall have the right to discharge a combined daily peak flow, during any 24-hour period, of 8.4 million gallons per day. The total combined daily peak flow for all connection points, during any 24 hour period, may total 38.5 million gallons per day, provided, however, that current limitations at the 29th Avenue and Chase Street Lift Station restrict MCD's total current combined peak flows to 16.7 million gallons per day.

Should a federal or state regulatory authority require GSD to implement an abatement program, then MCD shall be responsible for its proportionate share of such abatement program.

7. ACCEPTANCE AND TREATMENT OF WASTEWATER

A. Responsibility for Delivery and Transportation

MCD shall be solely responsible for delivery of the wastewater in a form suitable for passage through GSD sewer system. Said wastewater shall be delivered from

MCD's sewer system to the connection point by either a gravity sewer line or force main. GSD shall be solely responsible for transporting the wastewater from the MCD's connection points and delivering same to GSD's wastewater treatment facilities.

B. Treatment

GSD shall be solely responsible for the proper treatment and transportation of the wastewater received from MCD in accordance with the requirements and standards of IDEM, the USEPA, and the terms and conditions of the NPDES permit held by GSD.

C. Wastewater Materials Accepted

MCD shall adopt a Sewer Use Ordinance and User Charge Ordinance as amended form time to time thereafter which shall comply at a minimum with the Sewer Use Ordinance of the City of Gary or GSD as applicable to all users of the system. MCD's Sewer Use and User Charge Ordinances shall also comply with all applicable Rules and Regulations of the USEPA. GSD shall be under no obligation whatsoever to accept any type of waste or toxic materials which are a prohibited discharge under the rules of the USEPA or IDEM. GSD has no obligation to accept radioactive material. It is recognized by MCD that the Sewer Use Ordinance of the City of Gary, Indiana may be amended from time to time so as to change the types of waste which must be accepted by GSD, however, this shall not constitute a waiver of MCD's right to testify or oppose passage of said ordinances and amendments.

8. METERING AND SAMPLING DEVICES

A. MCD shall properly install, maintain and calibrate the required metering and sampling devices for the purpose of measuring the volume and concentration of

wastewater delivered by MCD to the connection points for conveyance and treatment and to provide a sampling and monitoring capability. Said metering and sampling devices shall be constructed in a manner and in a place accessible to GSD. The design of meters and metering point shall be approved by GSD. Each such device shall be subject to the inspection, testing and approval of GSD at all reasonable times during normal business hours.

For said purposes, and for the purposes of reading and recording data from said meters, each party shall, at all times, have complete and free access to said metering point and sampling devices.

The cost of planning, designing, building and installing any additional metering and sampling devices for an additional connection point, including acquisition of real estate, shall be borne exclusively by MCD. In addition, MCD shall assume complete responsibility, including costs, for the installation, maintenance and repair of said metering device and will further defray any costs incurred by reason of testing of the metering devices as requests may be made by GSD from time to time, provided such requests are reasonable as to frequency and nature of tests required.

MCD agrees to provide, install and maintain automatic flow measuring and recording devices with integrator-totalizers, at MCD's own cost and expense, at MCD's Taft Street Lift Station at 6251 Taft Street (S.R. 55); at MCD's Broadway Lift Station at 6250 Broadway; and, at MCD's 57th Avenue Lift Station at 57th Avenue and Massachusetts Street; in Merrillville, Indiana, for the purpose of recording the volume of flow discharged into GSD's system. These automatic flow measuring devices may be installed on the force

mains down stream of the lift stations at locations mutually acceptable to GSD and MCD, rather than at the lift stations. The total daily readings from such volumetric device shall be reported to the GSD monthly and in writing by the MCD before the seventh day of the following month.

GSD, at the GSD's expense, shall provide the necessary telemetry monitoring equipment to transmit to the GSD treatment plant continuous daily flow data from each of the MCD's Lift Station flow meters. MCD, at MCD's expense, will have telephone lines installed for use with the GSD's telemetry monitoring equipment. MCD will pay the monthly bills for the telephone lines used with GSD's monitoring equipment.

- B. MCD agrees to have all of MCD's flow, measuring and monitoring devices calibrated by a qualified instrumentation technician quarterly for the first two (2) years after the installation of the monitoring devices; and, if meter performance is acceptable, then semiannually. MCD will provide certification of said calibration to GSD within ten days after MCD obtains the results of said calibration. All measuring and monitoring devices installed by the MCD must be capable of complete on site calibration.
- C. The records and reports from such measuring devices will be kept by MCD and made available to GSD for analysis procedures.
- D. GSD may inspect such measuring devices at any reasonable time and in the event such a device fails and is not repaired within a reasonable time by MCD, then GSD may repair the same and MCD will pay GSD all costs and expenses for said repair.
- E. MCD agrees to provide, install and maintain at its own cost and expense sampling devices which are capable of providing a twenty-four (24) hour flow-

proportioned composite sample at each of the MCD's lift stations. Flow-proportioned composite twenty-four (24) hour sampling will be conducted daily by such laboratory as MCD and GSD may from time to time approve. Parameters to be tested shall include pH, – suspended solids, CBOD, phosphorus, ammonia and other testing as required to satisfy IDEM's and the USEPA's regulations. In addition MCD shall test at least semi-annually for "priority pollutants" and "organic pollutants" as defined in 40 CFR Part 136 and mandated by U.S. EPA to be tested by GSD at its Wastewater Treatment Plant. Said testing shall be coordinated with GSD testing. Samples as received from the sampling devices shall be available to both contracting parties. The results of tests on samples shall be provided to the GSD and MCD.

F. __ MCD shall pay GSD a fee of up to five thousand dollars (\$5,000) annually to defray the cost to verify metering the volume of flow and quality of laboratory testing of effluent from MCD to GSD. Both parties shall have access to the measuring and sampling devices for purposes of verifying flow and collecting samples for verification of loadings. Notice of such sampling shall be given to MCD and each party will be given adequate portions of any samples obtained for purposes of measuring and monitoring the quality of wastewater being received by GSD from MCD.

COST OF TREATMENT

A. Operation, Maintenance and Replacement Costs

(1) The MCD will pay to the GSD \$132,544.00 as a negotiated final settlement for all operation, maintenance and replacement costs for all periods prior to January 1, 1994.

- (2) MCD shall pay its fair share of the annual accrual based operation and maintenance costs, including replacement costs and capital costs of transportation and treatment of such wastewater, according to its use of GSD's facilities. Capital costs in this paragraph shall not include replacement items and capital costs included in rhetorical paragraph 9(8) herein.
- (3) It is understood and agreed that MCD's current and future user charge rate will be based upon the methodology and formula set forth in the attached EXHIBIT B [See, APPENDIX OF EXHIBITS, *infra* at pp. A-2 A-4], EXHIBIT C [See, APPENDIX OF EXHIBITS, *infra* at pp. A-5 A-11], and EXHIBIT D [See, APPENDIX OF EXHIBITS, *infra* at pp. A-12].
- (4) It is understood and agreed that the attached EXHIBIT E [See, APPENDIX OF EXHIBITS, *infra* at pp. A-13 -- A-22] is a "sample example", which depicts how the sample rate was determined and provides a sample calculation of an MCD monthly GSD wastewater treatment bill according to the methodology and formula set forth in the attached EXHIBITS B, C and D.
- (5) Commencing January 1, 1994, MCD shall pay to GSD for the treatment of wastewater from MCD monthly amounts calculated, using a user charge rate determined according to the methodology and formula set forth in the attached EXHIBITS B, C and D.
 - (6) MCD will be billed on its constituent sample based upon laboratory

tests conducted by GSD. MCD shall receive a portion of the constituent sample used by GSD for billing purposes and MCD shall have the right to obtain independent lab tests on the split sample.

The GSD will maintain proper IDEM and USEPA certification of the GSD's testing procedures. If the GSD's IDEM and USEPA approval of the GSD's testing procedures is allowed to lapse, then the GSD's wastewater tests will not be used for billing purposes. If the MCD's independent testing performed on the split wastewater sample, which is used for the GSD's billing test for the MCD, establishes a major discrepancy with the results of the GSD's test, then the GSD will reevaluate the GSD's test results and in good faith attempt to negotiate a resolution of the discrepancy with the MCD.

(7) In addition, MCD's charges for interceptors and pumping stations shall be based upon the methodology and allocation set forth in the attached EXHIBITS B, C and D.

B. Capital Costs

(1) In recognition of the past local costs incurred by GSD in the construction of its wastewater treatment plant, MCD agrees to pay to GSD the MCD's fair share of said costs once that amount has been agreed upon by the parties or established legally. As an interim measure the MCD agrees to pay GSD those capital costs identified in EXHIBIT F [See, APPENDIX OF EXHIBITS, infra at pp. A-23 -- A-28]. The parties agree, that as additional cost information is established, the interim amounts of the MCD's share of

the GSD's capital costs as shown in EXHIBIT F will be modified accordingly.

- (2) MCD's share of GSD's capital costs, pursuant to **EXHIBIT F** and as later modified, shall be payable in equal semi-annual installments commencing on June 30th or December 31st after this Agreement commences and thereafter, semi-annually, on those dates until said sum, with interest has been paid in full, whereupon liability for such payments by MCD shall cease. It is agreed that unless MCD receives notice of additional capital costs from GSD by June 30th of a calendar year, then payment of such additional capital costs shall not be budgeted by the MCD until the following year.
- (3) Local costs (total less grant funds received) necessary for future improvements to GSD's wastewater treatment plant shall be shared by MCD and GSD on the basis of capacity reserved for each community or user of the facility being improved. Such future capital costs and the responsibility of each party hereto shall be negotiated and agreed upon between the parties at such time as improvements become necessary.
- (4) It is agreed that at the commencement of this Agreement, 10.5 percent of GSD's primary wastewater treatment capacity of 80 million gallons per day is reserved to MCD and 89.5 percent to GSD and 14 percent of GSD's secondary and tertiary capacity of 60 million gallons per day is reserved to MCD and 86 percent to GSD. Further MCD has reserved 10.5% of GSD's dewatering facility capacity. To utilize these percentages of such

capacity, MCD is entitled to transport 8.4 million gallons per day (average daily flow on an annualized basis) of wastewater to GSD.

In the event MCD shall transport wastewater to the GSD plant in excess of 8.4 million gallons per day (average daily flow on an annualized basis) and thereby use in excess of their 8.4 million gallons per day (average daily flow on an annualized basis) and thereby use in excess of their allotted capacity before such plant is increased in capacity, and in the event GSD plant has capacity sufficient to accept such increased amount of wastewater, then MCD agrees to pay to GSD a surcharge appropriate to the additional plant capacity used by MCD on account of this increased amount of wastewater.

Prior to the commencement of a year in which it would appear that MCD might transport to GSD for treatment wastewater in excess of 8.4 million gallons per day (average daily flow on an annualized basis) and in any event prior to MCD's transporting a maximum annual flow in excess of that stated per year, MCD and GSD shall reach Agreement as to the amount of such surcharge and the terms and conditions of its payment. Both parties understand and agree that the payments called for by paragraphs 9-A and 9-B of this Agreement are intended to compensate and reimburse GSD for services rendered in the treatment and disposal of wastewater from MCD. Such payments shall not entitle MCD to any possessory or proprietary rights in the wastewater treatment facility of GSD. GSD reserves the right to

operate and maintain such facility and shall have sole discretion as to the methods of operation and the necessity for the nature and extent of improvements thereto.

(4) In order to provide advance notice of future capital costs, GSD shall provide MCD with copies of any facilities plan for which GSD intends to request participation by MCD, at least 30 days prior to GSD's submittal of the proposed facilities plan to IDEM or to the USEPA.

MCD shall be given notice, not less than four weeks in advance, of any meeting in which a proposed bond ordinance or resolution may be placed on an agenda for adoption by GSD or the City of Gary, so as to allow MCD to remonstrate or otherwise voice its opinions concerning such proposed facility.

10. EXCESS LOADINGS

In the event of future changes in the cost of treatment of suspended solids, CBOD, Phosphorus, Ammonia based upon the studies in conformity with USEPA requirements, MCD shall be subject to any such increased or decreased charges for such excessive pollutants. In the event that future charges are made for other excessive pollutants received by GSD, and such charges are uniformly applied throughout the region served by GSD and its contract customers, MCD shall be subject to such charges.

11. BILLING AND PAYMENT

identified above, shall be determined monthly and GSD shall bill MCD within thirty (30) days thereafter for the charges applicable under rate schedules then in effect for the previous thirty (30) day metered period with said bill showing appropriate meter readings and loadings of CBOD, Phosphorus, Ammonia, and suspended solids. In the event that MCD should fail to make payment to GSD of the amount of such invoice within 45 days of the date that MCD is billed (post-mark date), then MCD shall be liable for and shall pay to GSD interest on such delinquency for each day the MCD's payment is delinquent at the same interest rate allowed on money judgments according to I.C. 24-4.6-1-101.

12. RATE COVENANTS OF MCD

MCD shall institute, maintain and enforce a system of charges in accordance with Section 204 (b)(1). Public Law 92-500 as amended and supplemented and the guidelines and regulations promulgated from time to time by the USEPA.

13. ADJUSTMENT OF COST AND PRIOR ADJUSTMENTS

- A. This Agreement shall be effective as to the determination of the cost of wastewater transportation and treatment for services provided on and after January 1, 1994. Capital costs shall be paid to GSD pursuant to paragraph 9-B of this agreement.

 Operation, Maintenance and Replacement costs shall be paid monthly.
- B. Commencing calendar year 1994, the Operation, Maintenance and Replacement cost rate shall be based upon GSD's projected annual budget and shall be reviewed at the end of each calendar year in each category under conditions and circumstances existing at the time for any necessary adjustment.
 - C. GSD agrees to install and maintain a measuring device at GSD's plant

in order to accurately measure the amount of flow coming to the plant. GSD further agrees to provide MCD with accurate measurements of the flow in 1994 and each year thereafter, during the life of this Agreement.

- D. GSD agrees to install an improvement where accurate influent measurement of wastewater concentration may be taken during 1994 and thereafter. GSD further agrees that in 1994 and each year thereafter, it will supply the MCD with said measurements.
- E. Effective through March 31, 1997, GSD agrees to supply to MCD by April 1 of each calendar year a description or work paper to support the allocation of operating costs of the prior calendar year, in order to further aid the parties in determining proper rates and charges. This description or work paper may be no more than the GSD's Director's best estimate of the labor hours and costs and material costs associated with the allocation.
- F. Beginning on January 1, 1997, In order that continuing cost data may be available regarding the annual cash operation expenses of the wastewater treatment plant, transmission facilities, collections systems, etc., GSD will maintain such records as may be necessary to accurately reflect the functional costs of the system. GSD shall provide copies of such records to MCD by April 1, for the prior calendar year. Such functional costs categories shall include, but not be limited to the following:
 - (1) Wastewater treatment plant costs including those specific costs associated with the treatment of CBOD, Phosphorus, Ammonia, suspended solids and other pollutants

- (2) Transmission costs including the cost of operating, maintaining and replacing specific lift stations and major transmission lines and mains.
 - (3) Costs of maintaining a collection system throughout GSD.
 - (4) Costs of accounting and billing customers within GSD.
 - (5) Costs of industrial surveillance within GSD.
 - (6) Costs of solid waste collection and disposal (if any).
 - (7) General administrative costs of the system.
 - (8) Costs of capital equipment.
- (9) Annual replacement cost by treatment plant, transmission (lift stations and interceptor sewers) and local and lateral sewers.
- G. ___ Beginning on January 1, 1997, records shall be maintained disclosing the gross volume of flow and loadings reaching the wastewater treatment plant, together with such other flow factors as inflow and infiltration amounts (inflow and infiltration amounts may be assumed) received within GSD, volume of use of specific lift stations by GSD versus volume used by MCD and such other data as may be necessary to determine the fair share of costs payable by MCD. GSD shall provide copies of such records to the MCD by April 1, for the prior calendar year.
- H. The GSD will develop actual in process removal data for use in allocating costs rather than design data. Commencing in 1995, and on an annual basis thereafter, the parties shall use the information supplied by the GSD, which is referred to above in rhetorical paragraph. 13 and is entitled "ADJUSTMENT OF COST AND PRIOR ADJUSTMENTS", in order to reallocate costs.

14. RESOLUTION OF DISAGREEMENTS

A. The parties agree that this Agreement supersedes all previous agreements and shall be retroactive to January 1, 1994. Except, however, this Agreement is not meant to extinguish any rights which GSD has pursuant to previous agreements to collect unpaid, unbilled or delinquent user charges, capital costs or MCD's proportionate share of Bond issues which inured to GSD's benefit prior to the execution of this agreement.

If either party determines that this Agreement, in any way, is inequitable or unfair to its citizens, such party may, by thirty (30) days written notice, request re-negotiation of any part of this Agreement and the other party will in good faith participate in such negotiations.

If the parties are unable to solve their problems by negotiations, then they shall in good faith attempt resolve their dispute pursuant to one of the methods contained in the Supreme Court of Indiana's RULES FOR ALTERNATIVE DISPUTE RESOLUTION before pursuing conventional litigation.

During this period of re-negotiation and/or dispute resolution, MCD shall continue to meet its financial obligations to GSD in accordance with the provisions of this Agreement, and GSD shall continue to accept and treat MCD's wastewater.

B. At the time of the execution of this Agreement, there are additional charges which may be incurred by GSD pursuant to a consent decree which it executed to settle certain charges filed by USEPA. It is agreed and understood that MCD shall be responsible for its pro rata share of any costs for improvements required by the USEPA,

IDEM or any other regulatory agency, but excluding fines and penalties. It is understood between GSD and MCD that each party may retain counsel to participate in any litigated disputes for the purpose of protecting their respective interests.

15. LITIGATION

MCD agrees and undertakes to hold harmless and indemnify GSD from any liability damages losses, expenses or costs and from any action, negligence, or failure to act on the part of MCD in operation of its wastewater system.

GSD agrees and undertakes to hold harmless and indemnify MCD from any liability damages losses, expenses or costs and from any action, negligence, or failure to act on the part of GSD in operation of GSD's wastewater facilities.

16. OPERATIONS

- A. Both parties will, at all times, use reasonable and diligent care to keep their wastewater facilities in good operating condition.
- B. All parts of the sewage works and all records and accounts relating to the matters covered by this Agreement and the applicable sewer ordinances shall be made available for inspection by either party at any reasonable time.
- C. Both parties will cooperate with each other in the enforcement of their sewer related ordinances.
- D. Neither party shall be liable to the other for damages in case of an operational or system failure not due to its negligence or which is caused by an event beyond its control.
 - E. GSD agrees to have all flow, measuring and monitoring devices

calibrated by a qualified instrumentation technician quarterly for the first two (2) years after this Agreement is entered by the parties; and, if meter performance is acceptable, then semiannually. GSD will provide certification of said calibration to MCD within ten days after GSD obtains the results of said calibration. All measuring and monitoring devices used by the GSD must be capable of complete on site calibration. The MCD shall have the right to be present during such calibration.

- H. MCD shall have the right, through designated representatives, at any reasonable time, to review the records of GSD for the purpose of determining compliance with this Agreement and to obtain such information as may be pertinent thereto.
- I. GSD shall supply contemporaneously to MCD, a copy of the monthly report of operations as submitted to the USEPA and IDEM. GSD shall also supply MCD with annual financial statements.

17. COMPLIANCE WITH RULES, REGULATIONS, STANDARDS, AND LAWS

This Agreement shall comply with all state and federal regulations and laws regarding the collection and treatment of wastewater and the operation of their respective systems. In the event studies and/or rehabilitations are necessary or required as a condition of GSD receiving a wastewater grant, MCD shall fully cooperate with GSD to satisfy such requirements.

18. ANNUAL MEETING

between the communities in regard to the mutual problems associated with the collection and treatment of wastewater. Discussions at such meetings shall include plans of GSD and MCD as to additional facilities and the financing thereof, requirements of State and Federal agencies and other subject matters to assist in the abatement of pollution in the area. The first meeting shall be at GSD's offices. Subsequent meetings shall alternate between the two parties' offices. The annual meetings shall be held during December of each year. It is also contemplated that a review of annual charges for purposes of establishing the rate for the following year shall be discussed.

19. NOTICES

Any notices required or desired to be given under this Agreement may be served personally or by mail. Any notice given by mail shall be deemed to have been served upon certified mailing. At the date of execution of this Agreement, GSD's address is 3600 West 3rd Avenue, Gary, Indiana, Attention of the Director; MCD's office address is 6250 Broadway, Merrillville, Indiana, 46410.

20. BENEFITS

All of the provisions of this Agreement shall inure to the benefit of, and shall be binding upon, the successors and assigns of this Agreement.

21. CHANGES IN REGULATORY AUTHORITY

Reference has been made throughout this Agreement to USEPA, and to other regulatory agencies, either by name or description. It is understood, by and between the parties, that any such reference to any regulatory agency shall apply not only to each regulatory agency as presently exists but also to any other agency which may assume the

functions of such agency in the future.

22. SEVERABILITY

In the event that any provision of this WASTEWATER TREATMENT AGREEMENT conflicts with any applicable law, such conflict shall not affect any other provision of this Agreement which can be given effect without the conflicting provision. To this end the provisions of this Agreement are declared to be severable.

23. COMPLETE AGREEMENT

The terms and provisions herein contained constitute the entire Agreement between the parties and shall supersede all previous Agreements and/or Contracts.

IN WITNESS WHEREOF, the parties hereto, acting by and through their duly authorized officers, have executed this instrument as of the day and year first above written.

SIGNED AND DATED THIS ______DAY OF OCTOBER, 1995.

GARY SANITARY DISTRICT

MERRILLVILLE CONSERVANCY DISTRICT

ieffrey hughes, cauthann

ROLAND DUNGY, GSD Vice President

JOSEPH T. SANOK, Chairman of the

MCD Board of Directors

PAUL L. VOLK, MCD Vice-Chairman

ROLAND ELYAMBUENA, GSD Secretary

audry Demmon

AUDREY J. DEMMON, MCD Secretary-Treasurer

EDWARD M. SPERKA,

MCD Finance Committee Chairman

DONÁLD M. MRISCIN, MCD Board Member

WASTEWATER TREATMENT AGREEMENT

BETWEEN THE

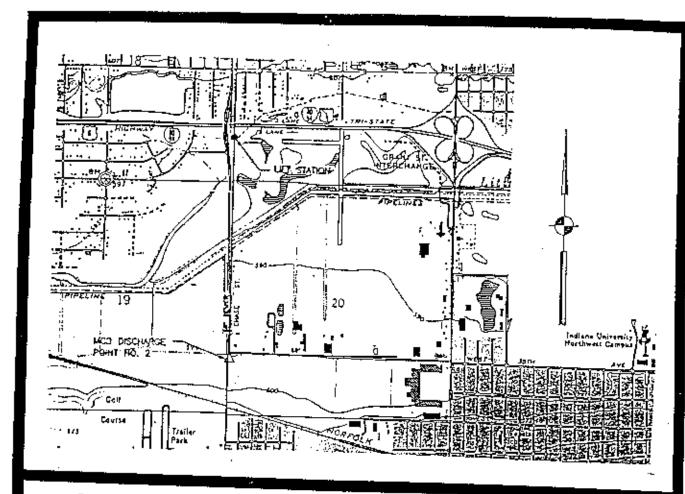
CITY OF GARY SANITARY DISTRICT.

AND THE

MERRILLVILLE CONSERVANCY DISTRICT

APPENDIX OF EXHIBITS

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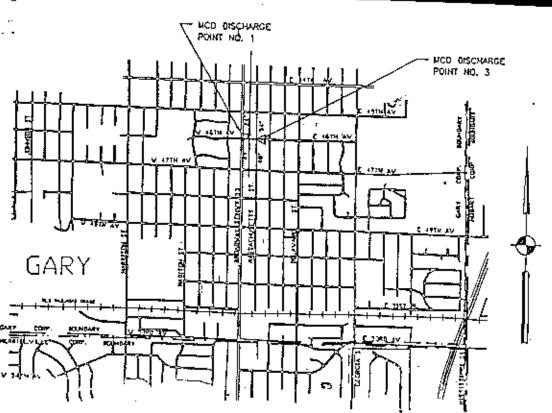


EXHIBIT A

Merrillville Conservancy District Contract

Cost Allocation Methodology

Cost of service for MCD shall be based upon the Plant Superintendent's best estimate of the process cost and the following parameters:

- 1 Flow (Volume) *
- 2 CBOD,
- 3 SS
- 4 Phosphorus
- 5 Ammonía

By the year 1998, the District will allocate the District's actual costs to the cost centers using standard accounting methods and, when applicable, actual removal percentages for waste constituent parameters.

The general parameters as utilized for the allocation process are as described below.

- 1 Volume cost is the expenditure required to handle the flow conveyed through the sewer system and handled by the flow related components at the treatment facility. Volume cost is generally derived from expenditures associated with pumping and holding of wastewater.
- 2 <u>Carbonaceous Biochemical Oxygen Demand (CBOD.)</u> Cost is the expenditure required to remove the CBOD, exerted by the carbon component of the organic compounds. CBOD, cost is associated with the operational expenditures in blowers, aeration tanks, settling tanks and filtration. *
- 3 <u>Suspended Solids (SS)</u> strength cost is the expenditure required to remove the solids from the wastewater. Suspended Solids cost is associated with the expenditures for settling tanks, sludge treatment and conveyance, filtration and ultimate solids disposal.
- 4 Phosphorus cost is the expenditure required to remove phosphorus from wastewater. Phosphorus removal cost is associated with the chemical building and mixing chambers. A portion of the sludge removal cost is also associated with the chemical building and mixing chambers. A portion of the sludge removal cost is also associated with phosphorus removal.
- 5 Ammonia cost is the expenditure required to remove ammonia from the wastewater. Ammonia removal dost is closely related to CBOD, removal inasmuch as its removal involves both stages of aeration.



Merrillville Conservancy District Contract

Cost Allocation Methodology

The following cost centers have been developed and a detailed analysis of the allocations to be used is as follows:

- a <u>Sanitary Sewers</u> costs allocated: 80% to Gary Volume and 20% Volume Common to All customer communities due to the factor that interceptors make up 20% of the District's sanitary sewer collection system.
- b <u>Pumping Stations</u> costs allocated based on the contributions of flow to the total flow at the stations that are used for inter-municipal customers and all other pumping stations were allocated to Gary. The Sanitary Pumping Station at 29th and Chase Street is allocated to Gary and MCD, based on flow at this station.
- c Outside Pumping Station and Screening Room, Grit Removal, Raw Sewage Pumping, Final Settling Tanks, Chloring Dechloring Buildings - The operation and maintenance expenses will be 100% allocated to Volume Common to All, and other customer communities.
- d Primary Treatment, Scum Removal, Primary Sludge Degritting Costs will be allocated based on the percentage of the removal costs for CBOD, and SS.
- e First Stage Aeration and Secondary Settling Tank costs will be allocated based on the percentage removal costs for CBOD, SS, and Phosphorus.
- f First Stage Pumping Station and Second Stage Aeration costs will be allocated based on the percentage of the removal costs for CBOD, SS, and Ammonia.
- g Second Stage Pumping Station and Filter Building costs will be allocated based on the percentage of the removal costs for CBOD, and SS.
- h Chemical Building costs will be allocated 100% to Phosphorus removal.
- i <u>Gravity/Floatation Thickener</u> costs will be allocated in proportion to the influent constituents of CBOD, SS, Phosphorus and Ammonia that is measured by the District.
- j <u>Dewatering Building</u>, <u>Digesters and Sludge Hauling</u> costs will be allocated 100% to SS.

Merrillville Conservancy District Contract

Cost Allocation Methodology

- k Plant Laboratory will be allocated in the same manner as the Gravity/Floatation Thickener Building.
- I Pretreatment costs will be allocated to Industry. These costs are identified by the accounting system.
- m <u>Security and Safety</u> costs will be allocated as Volume Common to All. (Gary, MCD and other Intermunicipal customers).
- n General Billing and Collection costs will be allocated 99.3% to Gary and other Intermunicipal customers and 0.7% to MCD.
- Remaining Expenses such as Administration, Accounting, Purchasing, Personnel, Board of Commissioners, and General will be calculated based on an overall percentage derived from total costs of Collection System and Treatment Plant.
- p Replacement Costs and other Capital Costs will be allocated as all similar line items.

Exhibit C provides a typical format to be used to allocate costs.

Schedule of Allocated Cast of Service

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PLANT OPERATIONS AND MAINTENANCE PLANT OPERATIONS

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Primary Treatment
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and 2nd Stage Pump Station
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Schedule of Allocated Cost of Service

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PLANT MAINTENANCE

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Raw Sewage Pumping

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and Boiler Building Total Plant Maintenance

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1st Stage Aeration
1st Stage Pump Station
and 2nd Stage Aeration
Float-Setting Tanks
2nd Stage Pump Station
and Filter Building
Chemical Building
Chemical Building
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Charties Building
Total Power

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Schedule of Allocated Gost of Service

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Schedule of Allocated Cost of Service

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(D)(E)(F) Amounts forwarded to Exhibit D.

Computation of Merrillville Conservancy District's (MCD) Rates and Charges

		,		Proposed/ Recalculated
Allocated Expenses	Allocated	Actual	Unit of	Unit
Common to All	<u>Costs (1)</u>	Quantity (2)	Measur	Cost (3)
Volume	(B)		Million Gal.	per 1,000 Gal.
CBOD	- (C)		lbs.	per lb.
Suspended Solids	(D)		lbs.	per Ib.
Phosphorus	(E)		lbs.	per lb.
Ammonia	(F)		lbs.	per lb.
Total	<u>\$ -</u>			: :

MCD Specific Identification Costs

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- (1) See Exhibit C for Allocated Expenses Common to All Grand Totals.
- (2) The flow and mg/l of constituents strength will be data collected in the preceding twelve month period in which such data is available.
- (3) Proposed/Recalculated Unit Cost will be calculated by dividing the Allocated Costs by the Actual Quantity.

(A)(B)(C)(D)(E)(F) Amounts forwarded from Exhibit C.

NOTE: The unit cost will be calculated twice each year. The first calculation will be made using the preceding year flow and constituents data and the ensuing year budget. The proposed unit costs will then be used in billing for the ensuing year beginning January 1. At the end of the year, the unit costs will be calculated again using the actual flow and constituents data and actual expenses for the year. The recalculated unit costs then will be applied retrospectively to each individual billing for the year in discussion.



SCHEDULE OF ALLOCATED COST OF SERVICE

	Phosphorus Ammeolia Industry	ω •		-B					4		169'08			9	1922
Common to All.	Phosphon	и		슽		٠.			1364	•			30 118		1184
Conn	Suspended Solids	57	_	4		٠,			38,313	L	84,009	٧	86,307		706.89
	CBOD	W		¢				;	41,686		174,127		59,027		76.561
	Volume	\$ 250,988		250.988		20000	24.288	54,988			;	57,426		78,275	
	Hobart Yelume	- •		4											;
ntification 1 abr	Station	v	12,236	12,236		,							عد عد		1
Specific Identification	Merrillville	u	35,743	35.743			!	•	: '						
	Gary	\$1,003,951	71,496 24,477	117.505											
	Sample Operating Budget	S1,254,939	107,239	1516396			109,976	54.988	93,272	96,442	338,827	57,426	145,333	39,138 78,275	150.576
		ower Collection & Maintenance: Senitory sowers \$1,25	27th & Chase Sweet 15th & Clay Street	Other pump stations Totals	lant Operations % Maintenance:	Outside pump station	& screening room	Graf removal	Primary treatment	1st stage acration	1st stage pump station & 2nd stoce acretion	Final settling tanks	2nd stage pump station & filter bldg.	Chemical building Chforine building	Gravity/Rotation thickener & boiler building

(See Cost Afloration Methodology)

EXHIBIT E

SCHEDULE OF ALLOCATED COST OF SERVICE

			Specific Identification	diffication .	-						
	Samule			Lake				Common to All	n to All		
	Operating	Gary	Merrillyille Volume	Station	Новящ Volume	Volume	CBOD	Suspended Sulids	Phesoherus	Physoperus Amongonia	Ladustry
Plant Maintenance:											-
Outside pump station			+	,	-		•			,	
& screening room	\$ 168,731	43	L 9	M	N	167,801 2	÷	*	•	•	•
Grit removal	135,019					135,019					
Raw sewage p"uping	67,423					0/,423	165 447	700 300			
Primary treatment	371,173						799'00'	207,02	530		
1st stage acmilon	67,423						33,064	90,,02	473		
1st stage pump station	,						947	677 668		276.00	
& 2nd stage serviou	337,461						1/3,425	45,009		90C D9	
Final settling reples	101,134			1		101,154					
2nd stage pump station							220.00	120 933			
& Olter Day 1 #12	219,297		:				67,000	767661	22021		
Chemical buildir g	16,856		1			•			10,630		
Chlorine building	33,711		١			35,/11					
Gravity/Rotation											
thickener & boiler							303 111	100 435	377	5 717	
building	119.472	4	=	÷	4	506.018	579,657	546.408	19.534	86.083	
locals	22/11/21										
Studge healing	1,745,714	4	4	9	÷	-0-	Ģ	1.745.714	4	4	4
			•								

(See Cost Allocation Methodology)

Page 3

EXHIBIT E

GARY SANITARY DISTRICT Gary, Indiana

SCHEDULE OF ALLOCATED COST OF SERVICE

	ŀ	ij								
		Jodustry	49				:			
		Phosphorus Ammonia	٠.			158,301			140	158.542
	II to All	Phosphorus	ú		4,901			4,620	F	9.594
	Continued to All	Suspended Solids	u	41,580	137,597	164,812			A 338	348.217
		CBOE	. ч	33,600	203,862	341,607			. 700	583.767
		Volume	30.520	250,880		020	00140	9,100		299.880
		Hobart Yalums	- 49							4
niffication	Lake	Station Volume	44			1		-		숙
Specific Identification	•	Merrillvitte	u				:	' '	ı	
		Gary Vetune	ø				1			¢
	Semale	Operating	\$ 1,120	250,880	346,360	664,720	8,260	4,620	3,100	9.240
			Power: Outside pump et "ion & screening "per"	Grit removal Raw sewage pumping	Ist stage service	1st stage pump station & 2nd stage deration	Final settling tanks	& filter building Chemical building	Chlorine building Gravity/flotation thickener & boiler	building Totals

(See Cost Alin, tion Methodology)

EXHITTE

CARY SANITARY DISTRICT Gary, Indiana

SCHEDULE OF ALLOCATED COST OF SERVICE

			Specific Ideas	dification							
	Semple		!	Lake		-		Common to All	n to All		
	Operating	Gery	Merritville	Station	Babart			Suspended			
	Budeet	Yelume	Velune	Volume	Volume	Volume	CBOD	Solids	Phosphorus	Ammonta	Industry
Administration & General:											
Billing & collecting	\$ 418,684	\$ 409,684	3,000	3,000	\$ 3,000	s,	•	S	4	·	u
Plant laboratory	364,763				:		185,471	166,924	2,866	105'6	
Pretreatment	393,163		10,000	10,000	10,000	. :					***
Security & metry	240.586					240.586					103.103
Totals	1.417.196	409,684	13,000	13.000	13.000	240.586	185,471	166924	7,886	9.501	363,163
	I			, , ,	***		1767 061	1116106	087 12	118 710	171 191
Subtotals	9.036.247	1,627,113	48.743	16767	13,000	27316201	112,120,00	2420-70-70-7	A CANADA	Zerente.	***************************************
	•		*****	/004.0	A 1.4%	10.000	70 PP 01	74 77 64	0.87%	1,75%	4.02%
Subtotal po contages	100.00	F 18,017e	\$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$	\$7.03m	5) p. 77%	10.67.08	1				
mail on the state of the	121 154	140 677	4214	2.182	1.124	142,926	151,912	271,165	6,370	29,287	31,398
Acministra:	107.096	46.857	1404	727	374	47,606	50,599	90,321	2,122	9,755	10,458
Accounting	140.300	240.40	757	392	202	25.669	27,283	48,700	1,1 4	5,260	669'5
Personne	140,000	000	778	403	207	26,385	28,044	50,059	1,176	5,406	5,796
15d. of Commissioners	177 441	726.74	1 108	1 656	853		115 283	205.781	4.834	72.225	23.827
Misociancons	279.7KC	245 575	10 361	\$ 150	1,761	ł	373,121	666.025	15.646	71.933	77,119
Total	1258.237	245,52	127-12	1000		ı		γ-			i

(See Cost Allochion Methodology)

EXPITE E

GARY SANITARY DISTRICT Gary, Indiana

SCHEDULE OF ALLOCATED COST OF SERVICE

(See Cost Allocation Methodology)

SAMPLE

A-1;

EXTERIT E

GARY SANITARY DISTRICT Gary, Indiana

SCHEDULE OF ALLOCATED COST OF SERVICE

			Specific Identification.	tification	***************************************						
	Sample			Lake				Commit	Common to All		
	Operating Budget	Gary Yelumt	Merrittville Valume	Station Volume	Hobert Yelume	Volume	CROD	Suspended Solids	Phespherus	Ammonla	Industry
Other Capital Items: Sewer collection & maintenance: Sanitary sewers \$ 10	анос: \$ 100,919	\$ 80,735	49	4	- (4	\$ 20,184	и	4 4	·	ú	sa
27th & Chase Street 15th & Clay Street	18,550	12,367		6,183							
Other pump stations Totals	119.462	93,102	4	6.183	4	20.184	÷	숙	 북	9	4
Plant: Outside pump : "fon & screening rom									-		
Grit removel Raw sewage mirring											
Primary treatment 1st stage geraden						•					
1st stage pump station & 2nd star* "cartion											
Final settlin.				.			,				
& filter bailting Chemical bailding				Ą.							
Chtorine building											
thickener & boiler											
building Total	4	6	4	+	+	4	þ	 	÷	후	4
Sludge Hauling:	2.905	- 0	4	-	4	-0-	-6-	2.905	4	9	4

(See Cost Allocation Methodology)

SAMPLE

A-K

EXHIBIT E

Page 7

GARY SANITARY DISTRICT Gary, Indiana

SCHEDULE OF ALLOCATED COST OF SERVICE

-			Specific Identification	tiffcetion.							
-	Sample			Lake				Common to All	n to All		
	Operating	Gary	Merrillville	Station	Hobert	Volume	CBOD	Suspended Salids	Photohome	Ammonle	Lockwelly
Administration & General:	1370000	Y CAUSE	- T VIRIALE	N I I	THE STATE OF	TRUMER					
Billing & collecting	44	\$ 18,063	s	1/3	- -	s	\$ 11 00¢	\$ 0.000	3	\$	м
Plant laboratory Pretreatment	43,289		10,000	10,000	10,000		900'11	coc's	2	5	13,289
Security & saf Totals	136.351	18,063	10,000	10,000	10.000	73,356	11,006	9.905	170	\$64	13.289
Administration	2,886	520	16	•	₩	\$28	562	1,002	24	801	911
Accounting &	24,629	4,435	133	69	35	4,506	4,789	8,548	201 26	923	990
Personnel Bd. of Commissioners	3,197	9/0	11		ל	1				i	
Miscellancous Total	30,712	5,530	991	88	4	5,619	5,972	10,660	250	1,151	1,234
Grant capita! items subtotal Grand total	109,439	116,696	19.166	16.268	10.044	99.158	16.978	23,470	\$ 124.502	\$17.1 \$75.502.3	14.523
Grand total percentages	100.00%	16.79%	2.65%	9.25.0	0.20%	19.53%	20,16%	33.66%	2.2%	336%	3,48%
Grand total Less: Interest income Misc. income	\$13,055,560 (50,000) (40,860) (90,860)		.*	ا			,				
Net cost of service requirements	\$12.964,700 \$2.176,773	52.176.773	\$ 84.271	\$ 67.416	\$ 25.929	\$2,532,006	\$2,639,613	54363.918	\$ 123,165	\$ 500.437	\$ 451.172
(See Cost Alloration Methodology)	hodology)										

SUMMARY OF ALLOCATIONS BASED ON SAMPLE COST OF SERVICE REQUIREMENTS

	Sample Operating Budget	Percentage <u>Allocation</u>
Specific Identification: Gary volume Merrillville volume Lake Station volume Hobart volume	\$ 2,191,599 × 84,708 67,770 25,805	16.79% 0.65% 0.52% 0.20%
Common to All: Volume CBOD Suspended solids Phosphorus Ammonia Industry	2,549,262 2,658,460 4,395,274 124,502 503,376 454.804	19.53% 20.36% 33.66% 0.95% 3.86% 3.48%
Total allocation	\$13,055,560	100,00%

Note: See Schedule of Allocated Cost of Service.

Note: The above is for the purpose of displaying an example of the rate calculation only and does not represent actual costs or usage.

Total sample pro forms cost of

GARY SANITARY DISTRICT Gary, Indiana

COMPUTATION OF MERRILLVILLE CONSERVANCY DISTRICT'S RATES AND CHARGES BASED ON SAMPLE COSTS

service requirements	<u>513.055.560</u>	·
		Allocated
Sample Operating		Costs
Erpenses Common to All	<u>-(B)</u>	^_(A.X.B)`.
Volume	19.53%	\$ 2,549,262

2,658,460 20,36% CBOD Suspended solids 33.66% 4,395,274 124,502 Phosphorus 0.95% Ammonia 3.86% 503,376

	Allocated	Sample	Unit of	Proposed
Sample Units Costs	Costs_	Quantity (1)	Measure	Unit Cost
Volume	\$2,549,262	12,385,610	MG	\$0.2058/1,000 gal.
CBOD	2,658,460	22,725.117	LBS.	\$0.1170/LB
Suspended solids	4,395,274	20,452,606	LBS.	\$0.2149/LB
Phosphorus	124,502	351,206	LBS.	\$0.3545/LB
Ammonia	503,376	1,164,146	LBS.	\$0.4324/LB

Sample Appual Costs	12 Months Ended 12/31/92 Flow MG	Actual Average Concentrate Levels MG/L		Conversion Factor	Proposed Unit Cost	Proposed Angual Costs
Volume	1,938,150			-	\$0.2058/1,000 gal.	\$ 398,871
CBOD	1,938,150	227.00		8.34	\$0.1170/LB	429,304
Suspended solids	1,938,150	170.00	1	834	\$0.2149/LB	590,526
Phosphorus	1,938,150	4.69		B.34	\$0.3545/LB	26,875
Ammonia	1,938,150	21.90		8,34	\$0,4324/LB	153,068
Merrillville's specific id	ientification costs					84.708
Total						\$1,683,352

Note: The above calculations are for explanation purposes only to display an example of the rate calculation, and do not represent actual costs or usages.

EXEIBIT E

GARY SANITARY DISTRICT Gary, Indiana

SAMPLE CALCULATIONS OF G.S.D. MONTHLY SEWER CHARGE

	Flor (MG)	(mg/l)	Ammonia.	Orygen	Oxygen Demand. mg/th (lbs.)	Phosphorus (med) (fbs.	herut Obs.)	T (Dam)	TSS (Ibs.)
(3u.§ Street Station 3 - 5 - 9 X 3 - 12 - 9 X	3.100	17.00	226.85 113.76	270	3,602.88 2,120.03	3,74	49.91	125	1,668.00
3-20-9X 3-27-9X Totals	2.200 1.800 8.700	12,00 8,60	220.18 129.10 689.89	253 192	2,882,30 13,247,25	3.43	62.93 40.38 177.78	204	3,742.99 2,627.10 9,201.52
lbs per MG (62nd St.) Total flow MG (62nd St.) Totals at 62nd St.	67.5	:	79.30 79.30 x 67.5 5.352.75		x 67.5 1,522.67 102.780.23		20.43 20.43 1.379.03		1,057.65 x 67.5 71.391.38
63rd Street Station 3 - 6 - 9 X 3 - 12 - 9 X 5 - 20 - 9 X	2.500 3.400 3.600	19,00°. 9,30 16,00	396.15 263.71 480.38 350.28	424 149 248 253	8,840.40 4,225.04 7,445.95	4.82 1.79 3.71	100.50 50.76 111.39	, 196 80 81 151	4,086.60 2,268.48 4,533.62
Totals Totals Totals MG (63rd St.) Totals at 63rd St.	13.000		1,490.52 1,490.52 114.66 x 100.75 11.552.80	ŀ	27,896.46 + 13.000 2,145.88 x 100.75 216,197.41		339.71 + 13.000 26.13 x 100.75 2.637.60		14,449.88 + 13.000 1,111.53 x 100.75 111.986.65
Combined costs	168.25		16.904.75		318,977,64		4.011.63		183,378.03
Specific costs Volume Oxygen demand Suspended solids Phosphorus Ammonia Totals	84,708.00 168,250.00 318,977.64 183,378.03 4,011.63	+ 12 \$.2058 .1170 .2149 .3545 .4324	\$ 7,059.00 34,625.85 37,320.38 39,407.94 1,422.12 7,309.61 \$127,144.20			SA	AMPLE		Ħ

CESTACE TREATHERN ACHERISM

Calculation of Capital Costs

	12-1 Pelmeipal 12-1 Interest 12-1 Fee	7-1 interest 7-1 fees	Adjustment 6-1 interest 6-1 fees	1-1 Interest	1-1 Pelselpal	1981	THE DATE	CRICINAL ANDINT	DATE ISSUED DATE ISSUED OF THE	
154,058.83	i ተቀቀቀ	105.75 56.40	Adjustment for see increase interest 0-	12,690.00	141,000.00			4,089,000.00 9,900,000.00	1985 7-1-56 30 YRS	
402,765.00	- 수수수	643.50 214.50 429.00		70,125.00 561.00	330,000.00				1993 12-1-62 30 YPS	
523,141.80	100,000.00 111,525,00 1,00	수	L11,525.00 90,00	ት ት ት	· 👇			4,500,000.00	1990 9-1-75 15 yrs	
331,411.55	165,000.00 03,097.50 126,60	ቀቀ	83,097.50 77.10 12,85	6	, þ			3,000,000.00 6,000,000.00 5,000,000.00	1991 9–1- <i>76</i> 15 YRS	
511,985.75	175,000.00 168,000,00 239,30	6 6	168,313.35 136,80 136,30	ነ ት የ	; \$	•		6,000,000.00	1998 \ 7-1-77 20 YFS	1980
476,600.25	163,131.50 163,131.50	; ;	146_25 146_25 1.45	ģ.	<u></u>	•	; *			
226,216,73	38,045.23 84.00		30,047,50	; ; ; ;	ት ' የ	þ	٠,	1,300,000,00		
3,203,774.14	564,116.03 981.15	509.60 264.25	- 117,70 - 117,70	1,491.08 767,88	150,619,00	845,000.00			AGIESS AG SAD SPELL YMOOL	
610 60 113 23	3 -	270.90 429.00							ACAL LYB. BA.	

DEC 0 91802



	1 4 0 %	
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Celculation of final fit Plus operational final Total Merrillville Rate	* Includes B	bollar Amount	Percentage of Bond Redemption to be charged to Merciliville for User Charge.	I-1 Principal I-1 Interest I-1 Fees 6-1 Interest 6-1 Fees
Calculation of Final flow rate: Divide by estimated annual MCD Flow in 1,000's; Plus operational final flow rate Total Merrillville Rate	Includes Bord Series 1955, 1959, 1962 and 1964 Which are not rellected on this statement	14,515.31	Bond be charged le for 8,61	26. 105.75 20. 105.75 20. 107.40 20. 107.40
nivide by estim	9, 1962 and 196 9 statement	29,897.46	6. 271	30,000.00 643.50 -67 -67 -67 -67 -67 -67 -67 -67 -67 -67
ated annual Mit	•	23,667.26	4.331	100,650,00 01,00 01,00
7 Flow In 1,000		62,331.04	18,761	77,322,50 72.15
)'s; (\$248,070.		63,075.33	12.6754	162,188,35 132,60
0.46 + 800,000)	•	54,584,06	11.8251	157,129.80 141.75
\$.3100 \$.1922	•	∳ ¥	4,4150	33,547,50 34,59
\$.3100/1,000 qa1, \$.1922 \$.5023/1,000 qa1,	i	\$248,970.46	- ,	845,000,00 136,345.50 1,354.60 530,839.15 4,62

Calculation of Capital Costs

.1981

•	12-1	11	\$ £	<u> </u>	1981		CRICINA	DALE IZENTED LESH CATHER CACH	
	Principal Interest Pee	Internat	Adjustment Interest Fees	Principal Interest Feed		4	CHICHNI MOUNT	Cano	İ
LE				_					
154,058,83	ት ቀ ት	105.75 56.40	for Fee Increase	141,000.00 12,690.00 206.68		3	289,000,00	1985 20 7-1 2861	
102,765.00	\$ + + \$ 8	643,50 214,50	792,00	330,000.00 70,175.00		27200000000	4,089,000,00 s soo non s	75-1-62 13-1-51 150-1	
523,141.80	300,000_00 111,525.00	· 수수 :	111,525.00	- 		4,500,000.00		1990 9-1-75	
126.60	165,000.00 83,097.50	15 5 5 11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	83,097.50	수 수		3,000,000.00		1991 1-75	
399.30 511.985.75	175,000.00	136,80	168,010,35	የ ቀ		6,000,000,00	20 YES	1998 7-1-77	1861
191, 25	150,000.00	146.25 	163.129.80	· ,		5,000,000,00	20 YPS	1999 7-24-78	
226, 216, 73	150,000,00	-00.86 -00.86 -00.86	# 5 ቀ ቀ ሰ	} \$		1,300,000,00	8 YRS	1986	
84.00 981.15 226.216.73 3,203,774.14	509.60 764.25 940,000,00	364,113,15 489,15 147,70 136,345,50	1,401,00 1,401,08 767,38	845,000.00			+ HELSIS	MAL TUBE	
563,800.21 802.95 2,626,179.91		564,113.15 489.15 150.60		471,000.00			70 gr	TOTAL PAYMENTS	

 C_{ℓ}

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12.675% 11.825% 4.415% 17.053 56357.816 9,987.47 5259,403,27	18,761 12,675 62,160,39 64917.053	4.334	29,171.20		• • • • • • • • • • • • • • • • • • • •
U.825%		4.331		14,149.59	Pollar Amount
		•	6, 271	8.60	User Charge.
			,	ge.	Percentage of Bond Redemption to be charged to Merrillville for
-0- -0- -0- -0- -0- -0- -0- -0- -0- -0-	77,322.50 162,188.35	100,650,00 81,00	544,50 -0-	105.75 197.46	i-l Interest 1-1 Fees 6-1 Interest 6-1 Pees

C.

A-26

Totals	6667 1968	1996	1994	1992 1991 1990	1989 1989	1985 1986	1981 1982 1983	Year
\$1,092,175						151;772 147,520 143,267	164,530 160,278 156,025	1956 IBRUE 54,089,000
\$5,957,742			331,617 330,759	361,004 349,421 337,838	395,753 384,170 372,587	430,502 418,918 407,335	\$ 476,834 465,251 453,668 442,085	9 6
\$4,790,951				323,224	346,333	458, D16 436, 248	\$ 546,588 523,320 501,552 479,784	1975 1saue \$4,500,000
\$3,974,500				330,602	326,326	329,277	\$ 332,255 331,399 329,842	1976 Issue \$3,000,000
\$9,832,905	552,049 552,063	529,479. 528,996	524,503- 527,960	520,382 504,168 512,691	518,982 501,488 509,933	512,687 498,677 509,705	\$ 497,616 512,166 499,908	1977 Issue \$6,000,000
384,499 58,916,495	437,430 412,65B	432,631 461,828	446,886 453,166	437,536 444,528 429,202	462,366 446,554 455,349	452,581 465,579 451,569	\$ 461,599 476,599 464,590	1978 Issue \$5,000,000
\$1,622,248			•		234,895	232,606 227,097 236,298	\$ -0- 226,217 227,211	1979 Imave \$1,300,000
304,499	5 d d d d d d d d d d d d d d d d d d d	962,110	1,736,215	2,010,046 2,010,046 1,961,526 1,627,445	2,512,812	2,608,354 2,560,920	\$ 2,483,695	Yearly Totals

COMPLETE AGREEMENT

The terms and provisions contained constitue the entire Agreement between the parties and shall supersede all previous Agreements and/or Contracts.

IN WITNESS WHEREOF, the parties hereto, acting by and through their duly authorized officers, have exdecute this instrument as of the day and year first above written.

SIGNED AND DATED THIS	DAY OF OCTOBER, 1995
GARY SANITARY DISTRICT	MERRILLVILLE CONSERVANCY DISTRICT
July Wugher	Goseph Sanok.
JEFFREY BUGHES, GSD President	Joseph T. Sanok, Chairman
	of the MCD Board of Directors
Yoland Ann gry	
RODAND DUNGY, Vice-President	PAUL L. VOLK, MCD Vice-President
	Mudrey J. Deminen
ROLAND ELVAMBUENA, GSD Secretary	AUDREY J. DEMMON, MCD Secretary-
	Treasurer
Waling C. alt	
WASHINGTON C. ALSTON, DIRECTOR	EDWARD M. SPERKA, MCD FINANCE
	COMMITTEE CHAIRMAN
1	<u> </u>
·	DONALD M. MRISCIN, MCD BOARD

SAVARESE.

CHRISTINE : COORDINATOR

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 3 – INSPECTIONS	FORMS	



COLLECTION SYSTEM DAILY WORK ORDER TIME SHEET

DACE	0.5
PAGE	OF

WORK DATE	EMPLOYEE NAME	EMPLOYEE ID #
8		
54		· ·

THE REVERSE SIDE MUST BE COMPLETED ON ALL OBSTRUCTED LINES

WORK ORDER	START	ARRIVAL	COMP	TIME	WORK PERFORMED (INCLUDING MAP, MANHOLE#)
					- Control of the Cont

1				*	-
**	*				
		SC 2			
				-	
OTAL H	OURS				



CATCH BASIN INSPECTION REPORT

Date:		Inspector:					
Location: (address	s)	Map Section					
Location: Alley_	Location: Alley Street sidewalk yard easementother						
Depth:	Size						
Material: Precast _ other	con	ncrete blo	ck1	orickp	oured in place_		
Pipe Size: enter	enter_	ente	rexit	exit			
Pipe Material: vitri	ified clay	reir	forced con	ncreteP	VC other_		
Casting: above gra	.de ł	oelow gra	desat	isfactory	-		
Surface: Concert_		Slag_	A	sphalt	Dirt	-1	
Structure Condition	n:						
Riser and Casting:	good	fair	poor	Rehabilitat	ion Priority		
Cone:							
Barrel:							
Bench:							
Pipe Connection: §							
Infiltration/Inflow/				coneb	arrel		
Structural Condition: good fair poor Rehabilitation Priority							
Comments:				6.			



MANHOLE INSPECTION REPORT

Date:	Manhole	Manhole Identification #:			Inspector:		
Location: (addres	s)		1114660	ice aparetines to	Map Secti	ion	
Location: Alley	St	reet	_ sidewall	yard	easement	other	
Depth:	_ Size	_					
Manhole Materia other	l: Precast	co	ncrete bloo	ck brid	ckpoured	in place	
Riser: brick description	_adjustme				other	4	
Pipe Size: enter_	enter	ente	r exit	exit		¥	
Pipe Material: vit	rified clay_	rein	forced co	ncreteP	VC other		
Casting: above gr	adebe	low gra	desa	tisfactory	=1		
Needs to be raised	1						
Surface: Concert	- 1 30 4 6 6 6 6 6	_ Slag _	A	sphalt	Dirt	- ;	
Structure Condition	on: 💸					7	
Riser and Casting	: good	fair	poor	Rehabilita	tion Priority		
Cone:							
Barrel:	good	fair	poor	Rehabilita	ation Priority		
Bench:					ation Priority		
Pipe Connection:							
Infiltration/Inflow				cone	barrel		
Structural Conditi	on: good _	fair	poor	Rehab	ilitation Priority	/	
Comments:							

Priority Codes: 1- Replace Structure, 2 Repair Structure, 3 good Condition,

LIFT STATION DAILY REPORT SHEET & CHECKLIST

Station Name/L	ocation:							
Operators Name	e(s)							_
Date:		Arrival Time:			Departure Tim	ie:		_
INSPECTION	Yes	No	N/A		INSPECTION	Yes	No	N/A
CHECKLIST	res	INO	IN/A		CHECKLIST	162	INO	IN/A
Trash Rack					Alarm Light			
					Chart			
Bar Screen					Recorder			
					Cathodic			
Drywell					Protection			
Wetwell					HVAC			
Float					Controls			
Valve Vault					Station Lights			
Emergency					Control Panel			
Bypass Vault					Temp			
Degritter					Lawn			
Sluice Gates &								
Actuators					Fence & Gate			
					House			
Sump Pump					Keeping			
STATION DATA								
			Low Level	(Pump off)		High Level	(Alarm)	
Wetwell Level:	f	t	Set Point:		ft	Set Point:		ft
			Running			Electri	ical Current	Draw
	Discharge	Amperage	Time	Curre	ent Mode		(Amps)	
Pump	Rate (GPM)	(Amps)	(Hrs)	AUTO	MANUAL	Leg 1	Leg 2	Leg 3
Pump #1								
Pump #2								
Pump #3								

Pump #4

COMMENTS:

REGULATOR & OUTFALL DAILY REPORT SHEET & CHECKLIST

					ture Tir	me:		
	REGUL	ATOR				OUT	FALL	
INSPECTION CHECKLIST	Yes	No	N/A	INSPE CHECK	CTION KLIST	Yes	No	N/A
Sensors				Senso	rs			
Cables				Cables				
Controls				Contro	ols			
Weir Wall				Weir \	Wall			
Stop Plank				Stop P	lank			
Sluice Gate				Flap G	iate			
(Remove				(Remo	ove			
Intrusions)				Intrus	ions)			
				Remo	ve			
Weir Overflow				Floata	ble			
(CSO)				Mater	ials			
				Pictur	e of			
Actuator				Outfal	II			
Rain				CSO				
REGULATOR			_	OUTF	<u>ALL</u>			
% of Gate Open	:		%	Weir l	_evel:		ft	
Weir Level:		f	ft	Water	level O	ver Weir: _		
Water level ove	r Weir:	ft		Water	Water level in Outfall: ft			ft
Water level in R	egulator: _	ft						
Report all Al	bnormal	Conditio	ns Via Radio	/ Telephone	e from	each Si	te A.S.A	.P.
*** Inspect 27th & Chase and 15th & Clay twice daily.								
*** Inspect all other stations at least twice per week.								
*** Inspect all regulators at least once per week and immediately after a heavy rain event. Also, as directed by the Operations Department Staff.								

*** Inspect all outfalls at least once per week and immediately after a heavy rain

*****Provide Comments on back of sheet if needed.*****

event. Also, as directed by the Operations Department Staff.

COMMENTS:

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 4	– SEWER USE (ORDINANCE	



AN ORDINANCE AMENDING GARY MUNICIPAL CODE TITLE XY SECTION 158 REGARDING SEWERS AND THE GARY SANITARY DISTRICT

WHEREAS, the present sewer ordinance is outdated and no longer meets State of Indiana and Federal laws having last been amended in 2010; and

WHEREAS, The City of Gary and the Gary Sanitary District have been mandated pursuant to Federal consent decree to revise and update the existing Sewer User Ordinance; and

WHEREAS, The State of Indiana and the United States Environmental Protection Agency have approved the prosed replacement ordinance; and

WHEREAS, The State of Indiana and has mandated that the City of Gary and the Gary Sanitary District adopt this City Ordinance and corresponding GSD Resolution on, or before, September 18, 2014; and

WHEREAS, the City of Gaty will benefit from the proposed replacement ordinance.

NOW, THEREFORE, BE IT ORDAINED by the Common Council of the City of Gary, Indiana as follows:

SECTION 1. The present Title XV Section 158 is amended in its entirety to read as follows: (See Attached)

SECTION 2. This ordinance does not affect prosecutions for ordinance violations committed prior to the effective date of this ordinance, does not waive any fee or penalty due and unpaid on the effective date of this ordinance, and does not affect the validity of any bond or cash deposit posted, filed or deposited pursuant to the requirements of any ordinance.

SECTION 3. This ordinance shall be in full force and effective from and after the date of its passage and publication according to law.

PASSED, and ADOPTED by the Common Council of the City of Gary, Indiana, this day of

Presiding Officer

City Clerk

TEST:

PENDING ORDINANCE	CPO-
ORDINANCE NO.:	
AS AMENDED:	
CERTIFICATION DATE:	
CERTIFIED BY:	
FAVORABLY:	
UNEAVORABLY:)
() OTT	st
Meresented by me to the Mayor for approval and signature this day of	
20 17.	Clerk
	1-1/
APPROVED and SIGNED by me this 18th day of September, 2013	4
APPROVED and Storvish by the side	1 /
VIII-	
MAYOR, CITY OF GARY, IN	DIANA
C.P.O. 14-94/8839	
Terroll Linguis In GSD Attorney	
PREPARED BY: Jewell Harris, Jr., GSD Attorney SPONSORED BY: Hon. Mayor Karen Freeman-Wilson, GSD Special Administrator	
- and He	
Finance Countitle Reported Out: 9-16-14 Second Leading: 9-16-14 Passed: 9-16-14	
Reported Out: 970	
Canad Peadings 9-1671	
Steven II Garage	
Passea, 47674	
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SEWER USE ORDINANCE

SECTION I

GENERAL PROVISIONS

A. PURPOSE AND POLICY

This ordinance sets forth uniform requirements for discharges into, the construction of, and additions to, the Gary Sanitary District ("GSD") wastewater collection and treatment system. These requirements enable the GSD to protect public health, maintain a sound sewer infrastructure system in the future, and comply with all applicable local, state and federal laws relating thereto.

B. OBJECTIVES

- 1. To prevent the introduction of pollutants into GSD's wastewater treatment system that will interfere with the normal operation of the wastewater treatment plant or contaminate the resulting municipal sludge; or result in GSD's violation of their ordinance, permit, orders, laws, or rules and regulations, etc.;
- 2. To prevent the introduction of pollutants into GSD's wastewater treatment system which do not receive adequate treatment in the wastewater treatment plant, and which will pass through the plant into receiving waters or the atmosphere;
- 3. To improve the opportunity to recycle and reclaim wastewater and sludge from the system;
- 4. To minimize the introduction of infiltration and inflow into the wastewater collection system that will occupy capacity reserved for community growth.

This ordinance provides for the regulation of discharges into GSD's wastewater system through the issuance of industrial discharge and building permits, the execution of special agreements, and the enforcement of administrative regulations and permit requirements.

In furtherance of these objectives, this ordinance details the general regulation of discharges to public sewers, the issuance of connecting permits for building sewers, the inspection of building sewers, the issuance of construction permits for sewer construction, the issuance of discharge permits for industrial users of the system, and

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the enforcement of all applicable local, state, and federal laws and regulations required by the Clean Water Act, General Pretreatment Regulations (40 CFR Part 403), and consistent with the Gary Sanitary District Enforcement Response Guide.

C. DEFINITIONS

As used in this ordinance the following terms shall have the meanings ascribed to them in this part unless the context specifically indicates otherwise:

- 1. "ASTM" shall mean the American Society for Testing and Materials.
- "ACT" shall mean the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq., also known as the Clean Water Act.
- 3. "Administrator" or "Approval Authority" shall mean the Regional Administrator of the U.S. Environmental Protection Agency (U.S. EPA) or the Commissioner of the Indiana Department of Environmental Management (IDEM) or its successor, provided such state agency has a pretreatment program approved by the EPA.
- 4. <u>"Ammonia Nitrogen"</u> shall mean the concentration, expressed in milligrams per liter (mg/l) of nitrogen that is in the ammonia form. Determination of ammonia nitrogen shall be in accordance with 40 CFR Part 136.
- 5. "Authorized Representative of Industrial User" shall mean:
 - (a) A principal executive officer of at least the level of vice president, if the industrial user is a corporation; or
 - (b) A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively; or
 - (c) A duly authorized representative of the individual designated above if such representative is responsible for the overall operation of the facilities from which the indirect discharge originates.
- 6. "Board" shall mean the Gary Sanitary District's Board of Commissioners.
- 7. "Biochemical Oxygen Demand Total (tBOD)" shall mean the quantity of dissolved oxygen in milligrams per liter required during stabilization of the decomposable organic matter (carbonaceous component) by aerobic biochemical action under standard laboratory procedures for five (5) days

- at 20° Celsius using USEPA approved procedures in accordance with 40 CFR 136.
- 8. "Building Drain" shall mean that part of the lowest horizontal piping of a drainage system which receives the discharge from solid waste and other drainage pipes inside the walls of the building and conveys it to the building sewer which begins five (5) feet (1.5 meters) outside the inner face of the building wall.
- 9. "Building Sewer" shall mean the extension from the building drain to the public sewer or other place of disposal and shall include that portion of the drain within the public right-of-way.
- 10. <u>"Bypass"</u> shall mean the intentional diversion of wastestreams from any portion of an Industrial User's treatment facility and consistent with the language contained in 40 CFR Part 403.17.
- 11. "Categorical Industrial User" shall mean an industry whose effluent is regulated under 40 CFR 403.6.
- 12. "Categorical Pretreatment Standard" shall mean any regulation containing pollutant discharge limits promulgated by U.S.EPA in accordance with section 307 (b) and (c) of the Act which apply to a specific category of Industrial Users and which appear in the appropriate subpart of 40 CFR Chapter I, Subchapter N.
- 13. "Carbonaceous Biochemical Oxygen Demand (cBOD)" measures the quantity of oxygen utilized in the biochemical oxidation of organic or carbon compounds while inhibiting the nitrogenous oxygen demand under standard laboratory conditions and by using standard laboratory analytical procedures, in accordance with 40 CFR 136, in five (5) days at twenty (20) degrees centigrade, expressed in milligrams per liter (mg/l).
- 14. "City" shall mean the civil City of Gary, Lake County, Indiana.
- 15. "Combined Sewer" shall mean a sewer designed to carry both sanitary wastewater and storm or surface-water runoff.
- "Compatible Pollutants" shall mean wastewater having or containing (a) measurable biochemical oxygen demand, (b) suspended solids, (c) pH, (d) fecal coliform bacteria, or (e) additional pollutants identified or defined in the City's National Pollutant Discharge Elimination System (NPDES) permit or by the State or Board. It is further clarified that conventional

pollutants as identified by the USEPA pursuant to Section 304 (a)(4) of the Act in a form which causes interference with the POTW operations shall be considered non-compatible.

- 17. "Composite Sample" shall mean a twenty-four (24) hour composite sample containing a minimum of twelve (12) discrete samples taken at equal time intervals over the compositing period or proportional to the flow rate over the compositing period. More than the minimum number of discrete samples will be required in order to determine the average conditions during the compositing period when the wastewater loading is highly variable.
- 18. "Council" shall mean the Gary Common Council, Gary, Indiana.
- "Direct Discharge" shall mean the discharge of treated or untreated wastewater directly to the waters of the State of Indiana.
- 20. <u>"Director"</u> shall mean the Director of the Gary Sanitary District or his/her authorized deputy, agent, or representative.
- 21. "Discharge Report" shall mean the discharge monitoring report required by an Industrial Wastewater Discharge Permit describing, through representative sampling and measurements performed in accordance with 40 CFR 136, the nature of the monitored effluent discharge of an Industrial User.
- 22. "District" shall mean the Sanitary District of the City of Gary, commonly known as the Gary Sanitary District (GSD), and the Board of Commissioners thereof, Lake County, Indiana. Any reference thereto shall mean all territory within the perimeter of GSD's boundaries or under its jurisdiction.
- 23. "District Sewer" shall mean a sewer owned and operated by the Gary Sanitary District.
- 24. "Domestic Wastewater" shall mean sewage introduced into a wastewater treatment system by residential users.
- 25. "Effluent" shall mean the water, together with any wastes that may be present, flowing out of a drain, sewer, receptacle or outlet.

- 26. "EPA" shall mean the U.S. Environmental Protection Agency or, where appropriate, the term may also be used as a designation for the administrator or other duly authorized official of said agency.
- 27. "Foundation Drains" shall mean any network of pipes, pumps or drainage mechanisms located at, or under a footing, foundation or floor slab of any building or structure that intentionally conveys groundwater away from a building or structure.
- 28. "Garbage" shall mean solid wastes from the domestic and commercial preparation, cooking and dispensing of food and from handling, storage and sale of produce, meat, fish, seafood, fowl and condemned food.
- 29. "General Pretreatment Regulations" shall mean 'General Pretreatment Regulations for Existing and New Sources', 40 CFR Part 403, as amended.
- 30. "Grab Sample" shall mean a sample which is taken from a wastestream on a one-time basis with no regard to the flow in the wastestream and over a period of time not to exceed fifteen (15) minutes.
- 31. <u>"Groundwater Remediation Discharge"</u> shall mean the discharge or introduction of contaminated groundwater originating from an approved groundwater remediation project into the wastewater treatment system.
- 32. "Heat Pump Discharge" shall mean water discharged from a heat pump or other device that uses water as a heat source or heat sink.
- 33. "Indirect Discharge" shall mean the discharge or the introduction of nondomestic pollutants from any source regulated under section 307 (b),(c), or (d) of the Act (33 U.S.C. 1317), into the wastewater treatment system (including holding tank waste discharged into the system).
- 34. "Industrial Pretreatment Department" shall mean the department of GSD or its representatives that is responsible for implementation of the Industrial Pretreatment Program for GSD.
- 35. "Industrial User (IU)" shall mean any user of the wastewater treatment system who discharges, causes or permits the discharge of non-domestic wastewater into GSD's wastewater treatment system.
- 36. "Industrial Waste" shall mean all solid, liquid or gaseous waste resulting from any commercial, industrial, manufacturing, agricultural, trade or

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- business operation or process or from the development, recovery or processing of natural resources.
- 37. "Industrial Wastewater" shall mean a combination of liquid and water-carried waste discharged from any industrial establishment and resulting from any trade or process carried on in that establishment, including the wastewater from pretreatment facilities and polluted cooling water.
- "Infiltration" shall mean the groundwater entering the sewer system from the ground through such means as, but not limited to, defective or poorly constructed pipes, pipe joints, pipe connections and manholes or from drainage pipe constructed to remove groundwater from areas such as building foundations and farm fields.
- 39. "Inflow" shall mean the storm and surface water entering directly into the sewers from such sources as, but not limited to, manhole covers, roof drains, basement drains, land drains, foundation drains, cooling/heating water discharges, catch basins, or storm water inlets.
- 40. "Interference" shall mean a discharge, alone or in conjunction with a discharge or discharges from other sources, which either:
 - a. Inhibits or disrupts GSD's Wastewater Treatment Plant, its treatment processes or operations, or its sludge processes, use or disposal; or
 - b. Is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA), (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.
- 41. "Lift Station" shall mean any arrangements of pumps, valves and controls that lift wastewater to a higher elevation.

GARY CITY CLERK

- 42. "Maximum Daily Discharge Concentration" shall mean the highest allowable daily discharge for any calendar day during a calendar month based upon the type of sample (e.g. grab, 24-hour composite) required under this Ordinance, GSD issued discharge permit, or categorical pretreatment standard promulgated by USEPA.
- 43. "Medical Wastes" shall mean isolation wastes, infectious agents, human blood and blood products, pathological wastes, sharps, body parts, contaminated bedding, surgical wastes, potentially contaminated laboratory wastes and dialysis wastes or any other waste resulting from the provision of medical treatment.
- 44. "NH3-N" shall mean the same as ammonia nitrogen measured as ammonia.
- 45. "NPDES Permit" shall mean a permit issued under the National Pollutant Discharge Elimination System for the discharge of wastewaters to the navigable waters of the United States.
- 46. "Natural Outlet" shall mean any outlet into a watercourse, pond, ditch, lake or other body of surface water or groundwater.
- 47. "New Source" shall mean:
 - a. Any building, structure, facility or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under section 307(c) of the Act which will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided that:
 - (i) The building, structure, facility or installation is constructed at a site at which no other source is located; or
 - (ii) The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or
 - (iii) The production or wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is engaged in the same general type of activity as the existing source should be considered.

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- b. Construction on a site at which an existing source is located results in a modification rather than a New Source if the construction does not create a new building, structure, facility or installation meeting the criteria of paragraphs 47(a)(ii) or 47 (a)(iii) of this section but otherwise alters, replaces, or adds to existing process or production equipment.
- c. Construction of a New Source as defined under this paragraph has commenced if the owner or operator has:
 - (i) Begun, or caused to begin as part of a continuous onsite construction program:
 - (1) Any placement, assembly, or installation of facilities or equipment, or
 - (2) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation or New Source facilities or equipment; or
 - (ii) Entered into a binding contractual obligation for the purchase of facilities or equipment that is intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
- 48. "Noncontact Cooling Water" shall mean the water used for cooling which does not come into direct contact with raw material, intermediate product, waste product, or finished product.
- 49. "Nonindustrial User" shall mean all users of the wastewater treatment system not included in the definition of "Industrial User".
- 50. "Pass Through" shall mean a discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of GSD's NPDES permit, including an increase in the magnitude or duration of violation.
- 51. "Person" shall mean any individual, partnership, trust, firm, company, association, society, corporation, group, governmental agency, including but not limited to, the United States of America, the State of Indiana and all political

- 52. "pH" shall mean the negative logarithm of the concentration of hydrogen ions in solution.
- 53. <u>"Phosphorus"</u> shall mean the concentration, expressed in milligrams per liter (mg/l), of Total Phosphorus derived through acid hydrolysis of the sample conducted in accordance with 40 CFR 136.
- 54. "Pollutant" shall mean any dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical, chemical materials, chemical wastes, or biological materials, radioactive materials, heat, wrecked or discharged equipment, rock, sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water.
- 55. "Pollution" shall mean the man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water.
- "Pretreatment or Treatment" shall mean the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to or in lieu of discharging or otherwise introducing such pollutants into the wastewater treatment system. The reduction or alteration can be obtained by physical, chemical or biological processes, or process changes or other means, except as prohibited by 40 CFR Part 403.6(d).
- 57. <u>"Pretreatment Standard or Regulation"</u> shall mean any substantive or procedural requirement related to pretreatment contained in this ordinance, permit or any local, state, or federal regulations.
- 58. <u>"Private Sewage Disposal System"</u> shall mean any sewage disposal or wastewater treatment system not connected to a public sewer and constructed for the purpose of treating residential, commercial or industrial wastes
- 59. "Process Wastewater" shall mean any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.
- 60. "Properly Shredded Garbage" shall mean the wastes from the preparation, cooking and dispensing of food that has been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in

- public sewers, with no particle greater than one-half inch (1.27 centimeters) in any dimension.
- 61. "Public Sewer" shall mean any combined or sanitary sewer or lift station located within the public right-of-way or a dedicated easement and which is controlled by a public authority.
- 62. "Publicly Owned Treatment Works or POTW" shall mean a "treatment works/plant", as defined by Section 212 of the Act (33 USC Section 1292) which is owned by the City of Gary. This definition includes any devices or systems used in the collection, storage, treatment, recycling, and reclamation of sewage or industrial wastes of a liquid nature and any conveyances which convey wastewater to a treatment plant.
- 63. "Sanitary District" shall mean the geographical area serviced by the Gary Sanitary District.
- 64. <u>"Sanitary Sewer"</u> shall mean a sewer which carries sewage and to which storm, surface and ground waters are not intentionally admitted.
- 65. <u>"Sewage"</u> shall mean wastewater.
- 66. "Sewage System" shall mean the network of publicly owned sewers and appurtenances used for collecting, transporting, and pumping wastewater to the wastewater treatment plant, and the wastewater treatment plant itself. This term is also expressed as municipal wastewater system or wastewater collection system.
- 67. "Sewer" shall mean a pipe or conduit for carrying sewage or storm water.
- 68. "Sewer Work" shall mean the connecting of any building sewer to a GSD sewer, the making of a significant alteration to or significant repair of a building sewer to a building drain or the altering or repairing of a GSD sewer.
- 69. "Shall" is mandatory; "may" is permissive.
- 70. "Significant Industrial User" shall mean: 1) any Categorical Industrial User (CIU); 2) any other IU which a) discharges an average of twenty-five thousand (25,000) gallons of process wastewater per day; b) contributes a processed water which makes up five percent or more of the dry weather average hydraulic or organic capacity of GSD's Wastewater Treatment System; or c) is found by GSD, State of Indiana or the U.S.EPA to have significant impact, either by itself or in combination with other contributing industries, on the Wastewater

Treatment System, the quality of sludge, the system's effluent quality or air emissions generated by the system. Upon a finding that an IU meeting the above criteria has no reasonable potential for adversely affecting the wastewater treatment system of the GSD or for violating any pretreatment standard or requirement, the GSD may at any time, upon its own initiative or in response to a petition received from an industrial user, and in accordance 40 CFR 403.8(f)(6), determine that such an industrial user is not a significant industrial user.

- 71. "Significant Noncompliance (SNC)" shall mean an Industrial Users' effluent meets one or more of the following criteria:
 - a. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six (66) percent or more of all of the measurements taken during a six month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter;
 - b. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three (33) percent or more of all the measurements for each pollutant parameter taken during a six month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except pH).
 - c. Any other violation of a pretreatment effluent limit (daily maximum or longer term average) that the GSD determines has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of POTW personnel or the general public);
 - d. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the POTW's exercise of its emergency authority under section 40 CFR 403.8 (f)(1)(vi)(B) to halt or prevent such a discharge;
 - e. Failure to meet, within ninety (90) days after the schedule date, a compliance schedule milestone contained in a local control mechanism or enforcement order for starting construction, completing construction, or attaining final completion:
 - f. Failure to provide, within thirty (30) days after the due date, required reports such as baseline monitoring reports, ninety (90) day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules;

- g. Failure to accurately report non-compliance;
- h. Any other violation or group of violations which GSD determines will adversely affect the operation and implementation of the local pretreatment program.
- 72. "Slug Load or Slug" shall mean any discharge of non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge at a flow rate or concentration which would cause a violation of the prohibited discharge standards in Section II Parts B and C of this ordinance.
- 73. "Sludge" shall mean any solid, semi-solid or liquid waste generated from a municipal, commercial or industrial wastewater treatment plant or air pollution control facility or any other waste having similar characteristics and effects as defined in standards issued under Sections 402 and 405 of the Federal Act and in the applicable requirements under Sections 3001, 3004 and 4004 of the Solid Waste Disposal Act as amended.
- 74. "State" shall mean the State of Indiana.
- 75. "Standard Industrial Classification (SIC)" shall mean a classification pursuant to the Standard Industrial Classification Manual issued by the Executive Office of the President, Office of Management and Budget.
- 76. "Standard Methods" shall mean the laboratory procedures set forth in the latest addition, at the time of analysis, of "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health Association and the Water Pollution Control Federation.
- 77. "Storm Drain or Storm Sewer" shall mean a sewer which carries storm, surface water and drainage, but excludes sewage and industrial waters, other than unpolluted cooling water.
- 78. <u>"Storm Water"</u> shall mean any flow occurring during or following any form of natural precipitation and resulting from such precipitation, including snowmelt.
- 79. <u>"Total Suspended Solids (TSS)"</u> shall mean solids that either float on the surface of, or are in suspension in, water, sewage or other liquids, and which are removable by laboratory filtering using U.S.EPA approved methods.
- 80. "Toxic Amount" shall mean that concentrations of any pollutant or combination of pollutants, which upon exposure to or assimilation into any organism will

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- cause adverse effects, such as death, illness, cancer, genetic mutations, and physiological manifestations.
- 81. <u>"Toxic Pollutant"</u> shall mean, but not be limited to, any pollutant or combination of pollutants listed as toxic in regulations promulgated by the Administrator of the Environmental Protection Agency under the provisions of the CWA 302(A) or other acts.
- 82. "Unpolluted Water" shall mean water of quality that would not cause a violation of receiving water quality standards, would not be benefited by discharge to the sanitary sewers and wastewater treatment facilities, and without additional treatment could be directly discharged to waters of Indiana in compliance with local, state and federal law.
- 83. "Upset" shall mean an exceptional incident in any Industrial User's facility, in which there is unintentional and temporary noncompliance with categorical Pretreatment Standards because of factors beyond the reasonable control of the industrial user. An upset does not include noncompliance to the extent it is caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation and consistent with the language contained in 40 CFR 403.16.
- 84. "User" shall mean any person who contributes, causes or permits the contribution of wastewater into GSD's wastewater treatment system.
- 85. <u>"Wastewater"</u> shall mean water-carried human wastes or a combination of water-carried wastes from residences, business, buildings, institutions and industrial establishments, together with any ground, surface, storm or other waters as may be present.
- 86. <u>"Wastewater normally discharged by a residence"</u> shall mean the wastewater contributed by a residential living unit and shall not exceed a volume of ten thousand five hundred (10,500) gallons per month, thirty-five (35) pounds of suspended solids per month, and thirty (30) pounds of cBOD per month.
- 87. <u>"Wastewater Treatment Plant"</u> shall mean the portion of GSD's Wastewater Treatment System that is designed to provide treatment of municipal sewage and industrial waste.
- 88. <u>"Wastewater Treatment System"</u> shall mean all facilities for collecting, transporting, pumping, treating and disposing of wastewater.

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"Watercourse" shall mean an open-channel in which a flow of water occurs. 89. either continuously or intermittently.

D. **ABBREVIATIONS**

The following abbreviations shall have the designated meanings:

Biochemical Oxygen Demand 1. BOD₅:

2. cBOD₅: Carbonaceous Biochemical Oxygen Demand

3. CFR: Code of Federal Regulations

4. CIU Categorical Industrial User

5. CWA: Clean Water Act

6. EPA: United States Environmental Protection Agency

7. GSD: Gary Sanitary District

8. IDEM: Indiana Department of Environmental Management

9. ISBH: Indiana State Board of Health

10. JU Industrial User

11.1: Liter

Milligrams 12. mg:

13. mg/l: Milligrams per Liter

14. NH3-N Ammonia Nitrogen

15. NPDES: National Pollutant Discharge Elimination System

16.0 & M: Operations and Maintenance

17. POTW: **Publicly Owned Treatment Works**

18. RCRA: Resource Conservation and Recovery Act

19. SIC: Standard Industrial Classification

20. SIU Significant Industrial User

21. SNC Significant Non-compliance

22, SWDA: Solid Waste Disposal Act, 42 USC et seg.

23.TRC: Technical Review Criteria

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24. TSS: Total Suspended Solids

25. U.S.EPA: United States Environmental Protection Agency

26.40 CFR 136: U.S. EPA approved "Guidelines Establishing Test Procedures for the Analyses of Pollutants

27. 330 IAC 5-12-2: "Regulations for National Pretreatment Standards for Prohibited Discharges"

SECTION II

DISCHARGE AND SEWER REGULATIONS

A. <u>UNLAWFUL DISPOSAL OF WASTES</u>

- 1. It shall be unlawful to discharge to any natural outlet or watercourse within the District, any wastewater or other polluted water, except where suitable treatment has been provided in accordance with the laws of the United States, State of Indiana, and the District.
- 2. Except where a valid NPDES permit exists, the owner of all houses, buildings, or properties used for human occupancy, employment recreation or other purposes, situated within GSD and abutting any street, alley or right-of-way in which there is now located or may in the future be located a GSD sewer, is hereby required at his/her expense to connect such facilities directly with the GSD sewer in accordance with the provisions of this ordinance, within ninety (90) days after the day of official notice to do so, provided that said GSD sewer is within one hundred (100) feet (30.5 meters) of the property line, notwithstanding whether or not the facilities are served by any private sewage disposal system and within conditions as hereinafter provided.

B. GENERAL DISCHARGE PROHIBITIONS

- 1. No person shall discharge or cause to be discharged any storm water, surface water, groundwater, roof runoff, subsurface drainage, or unpolluted water into any sanitary sewer.
- 2. Storm water and all other unpolluted water may be discharged through structures existing prior to the prohibition of this practice to such sewers as are

specifically designated as combined sewers or storm sewers. No new storm water or unpolluted water flow shall be introduced to the combined sewer system except as provided in Section IV. Industrial cooling water or unpolluted process waters may be discharged, on approval of application, as provided in Section IV.

C. SPECIFIC DISCHARGE PROHIBITIONS

- 1. No person shall discharge or cause to be discharged to any GSD sewer wastewater or pollutant which cause, threaten to cause, or are capable of causing, either alone or by interaction with other substances:
 - (a) A fire or explosion hazard in the GSD's Wastewater Treatment System including, but not limited to, wastestreams with a closed cup flashpoint of less 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods in 40 CFR 261.21.
 - (b) Corrosive structural damage to the wastewater treatment system but in no case any solutions with pH lower than 5.5 or higher than 9.0;
 - (c) Obstruction to the flow in GSD sewers, or other interference with the proper operation of the wastewater treatment system;
 - (d) An interference;
 - (e) A pass-through;
 - 2. No person shall discharge or cause to be discharged to any GSD sewer:
 - (a) A slug or a flow rate and/or pollutant discharge rate which is excessive over a relatively short time period so that there is a treatment process upset and subsequent loss of treatment efficiency;
 - (b) Pollutants which create a fire or explosion hazard in the POTW, including but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21.

Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40°C (104°F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits.

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- (c) Any wastewater containing toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, to injure or interfere with any wastewater treatment process, to constitute a hazard to humans or animals, to create a toxic effect in the receiving waters of the wastewater treatment plant, or to exceed applicable categorical pretreatment standards;
- (d) Petroleum oil, nonbiodegradeable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
- (e) Pollutants which result in the presence of toxic gases, vapors, or fumes with GSD's Wastewater Treatment Plant in a quantity that will cause acute worker health and safety problems;
- (f) Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewers for maintenance and repair;
- (g) Solid or viscous substances and/or other pollutants which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater works such as, but not limited to grease, improperly shredded garbage, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, waste paper, wood plastics, tar, medical wastes, asphalt residues from refining or processing of fuels or lubricating oil, mud, glass grinding or polishing wastes, or tumbling and deburring stones;
- (h) Any substance that may cause the wastewater treatment plant effluent or any other product of the wastewater treatment plant such as residues, sludges, or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case shall a substance discharged to the wastewater treatment plant cause the wastewater treatment plant to be in noncompliance with sludge use or disposal criteria, guidelines, or regulations developed under Section 405 of the Act;
- (i) Any substance that will cause the wastewater treatment plant to violate its NPDES permit or the receiving stream's water quality standards;

- (j) Any wastewater containing radioactive material including, but not limited to, radioactive waste above limits, regulations, or orders issued by the appropriate authority having control over their use.
- (k) Detergents, surface-active agents, or other substances which may cause excessive foaming in the wastewater treatment system.
- (I) Any gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, carbides, hydrides, stoddard solvents, sulfides, epoxides, esters, amines, polynuclear aromatic hydrocarbons, pyridines, new and used motor oils, or antifreeze, except at concentrations which do not exceed levels of such substances which are routinely present in the normal wastewater discharge and do not otherwise violate any section of this chapter or the conditions of an industrial discharge permit or a special agreement.
 - (m) Polychlorinated biphenyls (PCBs) in any detectable concentrations.
 - (n) Unpolluted water except as provided in Section IV.
 - (o) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW.
- 3. No person shall discharge or cause to be discharged to the sewer or the POTW:
 - (a) Any trucked or hauled industrial process or hazardous wastes.
 - (b) Any septic tank waste, except at discharge points designated by the POTW and with a valid liquid waste hauler discharge permit.
- 4. Specific effluent limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an opportunity to respond.

- 5. POTW's may develop Best Management Practices (BMPs) to implement subparagraphs (c) (1) and (c) (2) of 40 CFR 403.5. Such BMP's shall be considered local limits and Pretreatment Standards for the purpose of this part and section 307 (d) of the Act.
- 6. No person shall discharge or cause to be discharged a wastewater which has a value which exceeds the specific pollutant limitation shown in Table I. Industries must report results for the parameters listed where there are no set limitations.

TABLE I

SPECIFIC POLLUTANT LIMITATIONS

POLLUTANT	SAMPLE TYPE	MAXIMUM DAILY CONCENTRATION (mg/l)
Arsenic	24 hr. Composite	0.037
Cadmium (Total)	24 hr. Composite	0.25
Chromium (Total)	24 hr. Composite	0.97
Copper (Total)	24 hr. Composite	0.47
Cyanide (Total)	Grab	0.058
lron "	24 hr. Composite	1 6.7
Lead (Total)	24 hr. Composite	0.49
Mercury (Total)	Grab	0.0009
Molybdenum	24 hr. Composite	2.00
Nickel (Total)	24 hr. Composite	2.5
Selenium	24 hr. Composite	0.92
Silver (Total)	24 hr. Composite	0.74
Zinc (Total)	24 hr. Composite	1.2
Phenois (4AAP)	Grab	0.7
Oil and Grease	Grab	60
Chlorides	24.hr. Composite	Report
Fluorides	24 hr. Composite	Report
Sulfate	24 hr. Composite	Report
Total Dissolved Solids	24 hr. Composite	Report

* Benzene	Grab	Report
*Toluene	Grab	Report
*Ethylene	Grab	Report
*Xylene	Grab	Report

Parameters marked with asterisk (*) apply to excavation/dewatering processes ONLY.

A grease interceptor shall be installed in the waste line leading from sinks, drains, and other fixtures or equipment in non-residential dwelling units or any establishments where grease may be introduced into the drainage, or sewage system in quantities that can affect line stoppage or hinder sewage treatment. The characteristics, size, and method of installation of the grease interceptor shall meet the requirements imposed by the Administrative Building Council of the State of Indiana and shall be reviewed and approved by GSD prior to the commencement of installation. Approval of proposed facilities or equipment does not relieve the person of the responsibility of enlarging or otherwise modifying such facilities to accomplish the intended purpose. On a showing of good cause, GSD may waive this requirement. A grease interceptor is not required for individual dwelling units or for any private living quarters. In the maintaining of these interceptors, the owner shall be responsible for the proper removal and disposal by appropriate means of the captured material and shall maintain records of the dates and means of disposal, which are subject to review by GSD. Any removal and hauling of the collected materials not performed by the owner or the owner's personnel must be performed by licensed waste disposal firms.

D. <u>MODIFICATION OF FEDERAL CATEGORICAL PRETREATMENT</u> <u>STANDARDS</u>

When GSD demonstrates consistent removal of pollutants limited by federal categorical pretreatment standards, as required by 40 CFR 403.7, and any amendments thereto, GSD may apply to the Administrator of EPA, or IDEM, for authorization to give a removal credit to reflect removal of toxic or other regulated pollutants by GSD's Wastewater Treatment System.

E. STATE AND FEDERAL REQUIREMENTS

Federal Categorical Pretreatment Standards or State requirements shall apply at the end of process, and local limits, if more stringent, shall apply at the end of pipe.

F. **GSD'S RIGHT OF REVISION**

GSD reserves the right to establish by resolution more stringent limitations or requirements on discharges to the wastewater system than those in this ordinance if deemed necessary to comply with the objectives presented in this ordinance, local, state, or federal laws or regulations.

G, BASELINE MONITORING REPORT

Within one hundred eighty (180) days after the effective date of a federal categorical pretreatment standard, or one hundred eighty (180) days after the final administrative decision made on a category, which ever is later, existing Industrial Users subject to such categorical pretreatment standards and currently discharging or scheduled to discharge to the wastewater treatment system will be required to submit to GSD a report containing the following information as required by 40 CFR 403.12(b) and listed in paragraphs 1-7 below. Where reports containing this information already have been submitted to GSD in compliance with the requirement of 40 CFR 128.140(b)(1977), the Industrial User will not be required to submit this information again. At least 90 days prior to commencement of discharge, New Sources, and sources that become Industrial Users subsequent to the promulgation of an applicable categorical Standard, shall be required to submit to GSD a report which contains the information listed in paragraphs 1-5 of this section. New Sources shall also be required to include in this report information on the method of pretreatment the source intends to use to meet applicable pretreatment standards. New Sources shall give estimates of the information requested in paragraphs 4 and 5 of this section.

- 1. Identifying Information. The Industrial User shall submit the name and address of the facility including the name of the operator and owners.
- 2. Permits. A list of any environmental control permits held by or for the facility.
- Description of Operations. An Industrial User shall submit a brief description of the nature, average rate of production, and Standard Industrial Classification of the operation(s) carried out by such Industrial User. This description should include a schematic process diagram which indicates points of discharge to the wastewater treatment system from the regulated processes.
- Flow Measurement. Information showing the measured average daily and maximum daily flow, in gallons per day, to the wastewater treatment system from each of the following:

- (a) All regulated process streams; and
- Other streams as necessary to allow use of the combined (b) wastestream formula or formula of 40 CFR 403.6(e).

The Director may allow for verifiable estimates of these flows where justified by cost or feasibility considerations.

- Measurement of Pollutants. The pretreatment standards for measuring pollutants are done according to 40 CFR 403.12(b)(5).
- Certification. A statement, reviewed by an authorized representative of the Industrial User and certified to by a qualified professional, indicating whether pretreatment standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O and M) and/or additional pretreatment is required for the Industrial User to meet the pretreatment standards and requirements as set forth in 40 CFR 403,12(b)(6).
- Compliance Schedule. If additional pretreatment and/or O and M will be required to meet the pretreatment standards, the Industrial User shall comply with provision as set in forth 40 CFR 403.12(b)(7).
- 8. Signatory Requirements. All baseline monitoring reports, 90-day compliance. and periodic compliance reports must be signed and certified consistent with 40 CFR 403.12(I).

H. **EXCESSIVE DISCHARGE/ DILUTION PROHIBITION**

Except where expressly authorized to do so by an applicable pretreatment standard or requirement, no Industrial User shall ever increase the use of process water, or, in any other way attempt to dilute a discharge as a partial or complete substitute for adequate treatment, to achieve compliance with a pretreatment standard or requirement. GSD may impose mass limitations on Industrial Users which are using dilution to meet applicable pretreatment standards or requirements, or in other cases where the imposition of mass limitations is appropriate.

I. NOTIFICATION PROCEDURES FOR ACCIDENTAL DISCHARGE NONCOMPLIANCE AND CHANGED DISCHARGES

In case of an accidental discharge, it is the responsibility of the Industrial User to immediately telephone and notify the Industrial Pretreatment Department within two hours of the incident. The notification shall include:

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- (a) Name of company;
- (b) Location of discharge;
- (c) Type of waste discharged;
- (d) Concentration and volume of waste discharged;
- (e) Corrective actions taken to minimize the impact of the discharge to the wastewater treatment plant;
 - (f) Date and time of occurrence.
- 2. The Industrial User shall immediately notify GSD, within two hours of their knowledge, if it is unable to comply with any requirement of this ordinance and/or any pretreatment standard because of a breakdown of its treatment equipment, accidents caused by human error, or upsets. The notification should include the information required in paragraph 1 above.
- 3. Within five (5) calendar days following an accidental discharge or incident of noncompliance, the industrial user shall submit to GSD a detailed written report describing;
 - (a) The cause of the accidental discharge or noncompliance;
 - (b) The period of the accidental discharge or noncompliance, including exact dates and times or if not corrected, the anticipated time the noncompliance is expected to continue;
 - (c) Steps being taken and/or planned to reduce, eliminate or prevent recurrence of the accidental discharge or noncompliance.
- 4. Such notification shall not relieve the Industrial User of any expense, loss, damage, or other liability which may be incurred as the result of damage to the wastewater treatment system, fish kills, or any other damage to person or property; nor shall such notification relieve the user of any fines, civil penalties, or other liability which may be imposed by this ordinance or other applicable law.
- 5. In any enforcement proceeding the Industrial User seeking to establish the occurrence of an upset shall have burden of proof. An Industrial User who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating lots, or other relevant evidence that:

- (a) An upset occurred and the Industrial User can identify the specific cause(s) of the upset;
- (b) The facility was at the time being operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures;
- (c) The Industrial User has submitted to GSD the information required in paragraphs 2 and 3 above.
- 6. A notice shall be permanently posted on the Industrial User's bulletin board or other prominent place advising employees whom to call in the event of an accidental discharge. GSD or its representative should be included on this notice. Employers shall ensure that all employees who may observe, cause or suffer such a dangerous discharge to occur are advised of the emergency notification procedure.
 - 7. All Industrial Users shall promptly notify the POTW in advance of any substantial change in the volume or character of pollutants in their discharge, including the listed or characteristic hazardous wastes for which the Industrial User has submitted initial notification under 40 CFR 403.12(p) and in compliance with the provisions of 40 CFR 403.12 (j).
 - 8. GSD shall evaluate each Significant Industrial User for the need of a slug control plan and if GSD decides that a slug control plan is needed, the plan shall contain, at a minimum, the requirements as set forth in 40 CFR 403.8(f)(2)(vi).

J. <u>LIABILITY FOR DAMAGE</u>

If any person discharges or causes to be discharged a waste which causes interference, obstruction, damage or any other impairment to the wastewater treatment system, the Director may assess a charge against said person for.

- (1) The work and materials required to clean or repair the wastewater treatment system; and
- (2) Any civil penalty, fine or cost of compliance with injunctions or other orders of a court or governmental authority imposed against GSD as a result of such interference, obstruction, damage or impairment;
- (3) Any civil penalty, fine or cost of compliance with injunctions or other orders of a court or governmental authority, imposed against GSD as a result of such interference, obstruction, damage or impairment;

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(4) All other costs incurred by the GSD or the City of Gary as a result of such interference, pass through, obstruction, damage or impairment including but not limited to expert, consultant, and attorneys' fees; and add such charges to said person's bill.

K. <u>DUTY TO MITIGATE: PREVENTION OF ADVERSE IMPACT</u>

All Users shall take all reasonable steps to minimize or prevent any adverse impact of any discharge in violation of this ordinance that has a reasonable likelihood of adversely affecting human health, the POTW, the waters receiving the POTW's discharge, or the environment.

L. MONITORING DEVICES: METERING EQUIPMENT

- 1. <u>Installation and maintenance at Industrial User's expense.</u> The Director may require, as is necessary to carry out the requirements of this ordinance, any industrial user to construct at his/her expense, monitoring facilities to allow inspection, sampling and flow measurement of the building drain or sewer and may also require sampling or metering equipment to be provided, installed and operated at the Industrial User's expense. The monitoring facility should normally be situated on the Industrial User's premises, but the Director may, when such a location would be impractical or cause undue hardship, allow the facility to be constructed in the public right-of-way; provided, however, the City's Board of Works shall be the authority, through the City's Engineering Department, to determine the locations on the public right-of-way, on or below which the monitoring device and facility shall be placed.
- 2. <u>Temporary right-of-way use permit</u>. The owner of the property abutting the public right-of-way to be used for the installation of the monitoring device shall acquire a temporary right-of-way use permit from the City. The City's Engineering Department shall review the temporary right-of-way use request and site plan prior to issuing the permit.

M. RIGHT TO INSPECT

Whenever required to carry out the objectives of this ordinance or of any issued Industrial Wastewater Discharge Permit, the authorized representative of GSD, IDEM, and/or USEPA, upon presentation of his/her credentials, shall have a right of entry to, upon, or through any premises for purpose of reviewing or photocopying relevant records, measuring, and sampling of the discharges or inspection premises, fixtures or equipment. This right of entry shall include, but not be limited to, any equipment necessary to conduct said inspections, measuring, and sampling. It shall be the duty of the discharger to provide all necessary clearance before entry and not to unnecessarily

delay or hinder the authorized representative in carrying out the review or photocopying of relevant records, inspection, measuring and sampling. The right of entry shall exist at any time.

N. <u>SEARCH WARRANTS</u>

If the Director or other authorized representative of the GSD has been refused access to building, structure, or property or any part thereof, and if the Director or authorized representative has probable cause to believe that there may be a violation of this Ordinance or that there is the need to inspect as a part of routine inspection program of the GSD designed to verify compliance with this Ordinance or any permit or order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then upon application to the appropriate Court, the Director may seek a search and seizure warrant describing therein the specific location subject to the warrant. The request by the Director shall specify what may be searched or seized on the property described. Such warrant shall be served at reasonable hours by the Director or authorized representative in the company of a uniformed police officer. In the event of an extreme emergency affecting the public health and safety, inspections shall be made without the issuance of a warrant.

O. RULES AND REGULATIONS

After the passage of this ordinance, and from time to time thereafter as may be needed, the Board of Commissioners may, by resolution, promulgate rules and regulations necessary to implement and carry out the provisions of this ordinance and not inconsistent therewith.

P. PENALTIES

- 1. Notwithstanding any other section, any person who violates any provision or discharge limit of this ordinance or of their issued Industrial Wastewater Discharge Permit may be assessed an administrative or civil penalty in an amount not to exceed two thousand and five hundred dollars (\$2,500.00) per offense. Each parameter violated shall constitute a separate offense. Further, each day's violation shall constitute a separate offense.
- 2. Any and all penalties assessed and compliance with this ordinance may be enforced in a court of competent jurisdiction.

3. Nothing in this ordinance shall restrict any right which may be provided by statute or common law to GSD to bring other actions, at law or at equity, including injunctive relief.

Q. RECORD KEEPING REQUIREMENTS

- 1. Any Industrial User subject to the reporting requirements established in this ordinance shall maintain records of all information resulting from any monitoring activities required by this ordinance. Such records shall include for all samples:
 - (a) The date, exact place, method, and time of sampling;
 - (b) The name(s) of the person or persons taking the samples;
 - (c) The dates analyses were performed;
 - (d) The names of the persons who performed the analyses;
 - (e) The analytical techniques/methods used;
 - (f) The results of such analyses;
 - (g) A laboratory certification statement;
 - (h) The signature of an authorized representative; and
 - (I) Properly completed Chain-of-Custody.
- 2. Any industrial user subject to the reporting requirements established in this ordinance shall be required to retain for a minimum of three (3) years any records of monitoring activities and results and shall make such records available to the U.S.EPA, IDEM, GSD or their authorized representatives for inspecting and copying. This period shall automatically be extended for the duration of litigation concerning the Industrial User or GSD, or as requested by U.S.EPA, IDEM or GSD.

SECTION III

INDUSTRIAL WASTEWATER DISCHARGE PERMITS

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A. PERMITS REQUIRED

- 1. All Industrial Users proposing to connect to or discharge into a GSD sewer must complete an application for an Industrial Wastewater Discharge Permit before connecting to or discharging into a GSD sewer.
- 2. All Significant Industrial Users connected to or discharging into a GSD sewer, who do not currently have an Industrial Wastewater Discharge Permit, must complete an application for an Industrial Wastewater Discharge Permit within thirty (30) days after the effective date of this ordinance.
- 3. All Significant Industrial Users shall obtain an Industrial Wastewater Discharge Permit from GSD before connecting or discharging into GSD's sewers.
- 4. No person shall knowingly make any false statement, representation, or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to this ordinance or Industrial Wastewater Discharge Permit. Nor shall any person falsify, tamper with, or knowingly render inaccurate any monitoring device or method required under this ordinance.

B. PERMIT APPLICATION

- 1. The Director shall have the authority to prescribe an Industrial Wastewater Discharge Permit application form. The application form shall require the following information:
 - (a) Name, address, and Standard Industrial Classification number;
 - (b) Volume of wastewater to be discharged;
 - (c) The wastewater characteristics, including, but not limited to BOD, suspended solids, ammonia, and pH;
 - (d) Description of daily, weekly, and seasonal variations in discharges;
 - (e) Location of building drain and/or building sewer;
 - (f) Pretreatment standards applicable to the discharge;
 - (g) If additional pretreatment and/or operation and maintenance is required to meet the pretreatment standards, the Industrial User shall provide it

by the shortest possible compliance schedules. The completion date in this schedule shall not be later than the compliance date established for any applicable federal pretreatment standard. The following conditions shall apply to this schedule:

- (i) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the Industrial User to meet the applicable pretreatment standards (e.g. hiring an engineer, completing preliminary plans, completing final plans, executing contracts for major components, commencing construction, completing construction, etc.);
- (ii) No increment referred to in paragraph (g) or (i) shall exceed nine (9) months;
- (iii) No later than fourteen (14) days following each date in the schedule and the final date for compliance, the Industrial User shall submit a progress report to the Director including, as a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps being taken by the Industrial User to return the construction to the schedule established. In no event shall more than nine (9) months elapse between such progress reports to the Director.
- (h) Each product produced by type, amount, process or processes, and rate of production;
- (i) The number and type of employees, hours of operation of plant, and proposed or actual hours of operation of pretreatment system;
- (j) SIC number according to the Standard Industrial Classification Manual, Bureau of the Budget, 1972, as amended;
- (k) Site plans, floor plans, mechanical and plumbing plans and details which show all sewers, sewer connections, and appurtenances by the size, location, and elevation;
 - (I) Where known, the nature and concentration of any pollutants in the discharge which are limited by any City, State, or National Pretreatment Standards, and a statement regarding whether or not the pretreatment standards are being met on a consistent basis,

- and if not, whether additional operation and maintenance and/or additional pretreatment is required for the Industrial User to meet applicable pretreatment standards;
- (m) An evaluation of the facilities required, costs (capital and operation and maintenance), and analysis of the feasibility of the providing the capability to suspend or provide holding capacity for permitted discharges during wet weather periods for durations of 6, 12 and 24 hours.
- (n) Any other information as may be deemed by the Director to be necessary to evaluate the Industrial Wastewater Discharge Permit application.
- 2. The Industrial Wastewater Discharge Permit application is to be signed and sworn to by:
 - (a) In case of a corporation or an association, an officer, or his/her duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge described in the application form originates;
 - (b) In the case of a partnership, a general partner;
 - (c) In the case of a sole proprietorship, by the proprietor;
 - (d) In the case of a governmental agency, by the principal executive officer.
 - (e) Any person signing the application statement submitted pursuant to this section shall make the following certification: I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. This statement must be consistent with the provisions of 40 CFR 403.6 (a) (2) (ii) and all amendments thereto.
 - (f) Whenever an application for Certification is made by a POTW, existing Industrial User, or new source under 40 CFR 403.6, said application must be made under the terms and conditions set out in said section, and contain the Certification Statement as set out in 40 CFR 403.6 (a) (2) (ii).

C. JERM

The Industrial Wastewater Discharge Permit shall be for a term not to exceed five (5) years. Any person wishing to continue to discharge to a GSD sewer beyond the term of the Industrial Wastewater Discharge Permit shall apply for renewal of the Industrial Wastewater Discharge Permit at least one-hundred eighty (180) days prior to the expiration of said permit.

D. <u>CONDITIONS</u>

The Director shall prescribe conditions to the Industrial Wastewater Discharge Permit that may include the following:

- Applicable federal and/or state laws, regulations or orders;
- 2. Limits on the wastewater characteristics in addition to those contained in this ordinance, including, but not limited to, polychlorinated biphenyls and polybrominated biphenyls for the protection of public health or the wastewater treatment system. The Director shall apply applicable federal categorical pretreatment standards or, in the absence of such standards, limits may be based on the best practical technology;
- i 3. The unit charge or schedule of user charges and fees for the wastewater to be discharged to a GSD sewer, as established by Board;
- 4. Limits on the average and maximum wastewater constituents and characteristics;
- 5. Limits on average and maximum rate and time of discharge or requirements for flow regulation, equalization, or suspension;
- 6. Requirements for installation and maintenance of inspection and sampling facilities;
- 7. Specifications for monitoring programs which may include sampling locations, frequency of sampling, number, types and standards for tests; and reporting schedule;
 - 8. Compliance schedules;
 - 9. Requirements for submission of technical reports or discharge reports;

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- 10. Requirements for maintaining and retaining plant records relating to wastewater discharge as specified by GSD, and affording GSD access thereto;
- 11. Requirements for notification of GSD of any new introduction of wastewater constituents or any substantial change in the volume or character of the wastewater constituents being introduced into the wastewater treatment system;
 - Requirements for notification of slug discharges;
- 13. A statement that indicates Industrial Wastewater Discharge Permit duration, which in no event shall exceed five (5) years;
- 14. A statement that the Industrial Wastewater Discharge Permit is nontransferable in accordance with Section IV.G of this ordinance;
- 15. A statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedule may not extend the time for compliance beyond that required by applicable Federal, State, or local law;
- 16. Other conditions as deemed appropriate by GSD to ensure compliance with this ordinance.

E. PERMIT MODIFICATIONS

As soon as possible after promulgation of a categorical pretreatment standard, the Industrial Wastewater Discharge Permit of Industrial Users subject to such standard shall be revised to require compliance with such standard within the time frame prescribed by such standard. In addition, the Industrial User, with an existing Industrial Wastewater Discharge Permit, shall submit to the Director within one hundred eighty (180) days after the promulgation of an applicable categorical pretreatment standard, the information required by Section IV. Industrial Wastewater Discharge Permits of Industrial Users, who must comply with federal categorical pretreatment standards prior to the effective date of this ordinance, shall be revised immediately upon the effective date of this ordinance to reflect applicable pretreatment standards. GSD reserves the right to amend any part of a permit issued under this Section to comply with local, State, or federal laws and regulations.

F. FEES

There shall be an application fee of fifty (\$50) dollars for an Industrial Wastewater Discharge Permit. Payment of the fee shall accompany submission of the

completed application. This fee shall apply to original and renewal permit applications and modifications initiated by the permittee of existing permits. A three-hundred (\$300) dollar permit fee shall be paid for all permits which are renewed and a five-hundred (\$500) dollar permit fee shall be paid for all new, assigned, or transferred permits. Payment of fees shall be paid before issuance of permits.

G. NONASSIGNABILITY OR TRANSFERABILITY

The Industrial Wastewater Discharge Permits are issued to a specific person for a specific facility and do not constitute a property interest, nor shall the Industrial Wastewater Discharge Permit be assigned, conveyed or sold to a new owner, new user, different premises or a new or changed operation without notice to and approval by the GSD.

H. PRETREATMENT

Industrial Users shall provide necessary wastewater treatment as required to comply with the ordinance and shall achieve compliance with all federal categorical pretreatment standards within the time limitations as specified by the federal pretreatment regulations. Any facilities required to pretreat wastewater to a level acceptable to GSD shall be provided, operated, and maintained at the Industrial User's expense. Detailed plans showing the pretreatment facilities and operating procedures shall be submitted to GSD for review and approval of such plans by IDEM before construction of the facility. The review of such plans and operating procedures will in no way relieve the Industrial User from the responsibility of modifying the facility as necessary to produce an effluent acceptable to GSD under the provisions of this ordinance. Any subsequent significant modifications in the pretreatment facilities or method of operation affecting its discharge shall be reported to and be acceptable to GSD prior to the Industrial User's initiation of the changes.

I. COMPLIANCE DATE REPORT

Within ninety (90) days following the date for final compliance with applicable pretreatment standards or, in the case of a New Source, following commencement of the introduction of wastewater into the system, any Industrial User subject to pretreatment standards or regulations shall submit to the Director a report indicating the nature and concentration of all pollutants in the discharge from the regulated process which are limited by pretreatment standards or regulations and the average and maximum daily flow for these process units in the Industrial User facility which are limited by pretreatment standards or regulations. The report shall state whether the applicable pretreatment standards or regulations are being met on a consistent basis and, if not, what additional operation and maintenance and/or pretreatment is necessary to bring the user into compliance with the applicable pretreatment standards

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or regulations. This statement shall be signed by an authorized representative of the industrial User.

J. PERIODIC COMPLIANCE REPORTS

Any Industrial User subject to a pretreatment standard set forth in this ordinance. after the compliance date of such pretreatment standard, or, in the case of a New Source, after commencement of the discharge into the wastewater treatment system. shall submit to the Director, during the months of June and December, unless required more frequently in the pretreatment standard or by the Director, a report indicating the nature and concentration of pollutants in the effluent which are limited by such pretreatment standards. In addition, this report shall include a record of all daily and average flows reported pursuant to this Ordinance. At the discretion of the Director and in consideration of such factors as local high or low flow rates, holidays, budget cycles, etc., the Director may agree to alter the months during which the above reports are to be submitted.

Reports of permittees shall contain the results of sampling and analyses of the effluent discharge, including the flow, the nature and concentration or production and mass where requested by the Director, of pollutants contained therein which are limited by the applicable pretreatment standards. The frequency of monitoring shall be as prescribed in the applicable pretreatment standard. All analyses shall be performed in accordance with 40 CFR Part 136. Where 40 CFR Part 136 does not include sampling or analytical technique for the pollutant in question, sampling and analyses shall be performed in accordance with the procedures set forth in the latest edition of U.S.EPA approved "Standard Methods for the Examination of Water and Wastewater" or with any other sampling and analytical procedures approved by the Administrator of the U.S.EPA.

K. HAZARDOUS WASTE REPORTING

Any Industrial User which disposes of hazardous waste, as defined under 40 CFR Part 261, must file reports with GSD within one hundred eighty (180) days of the effective date of the categorical pretreatment standards or one hundred eighty (180) days after the final administrative decision on the categorical pretreatment standard, whichever is later. Said reports must be in compliance with the terms of and contain the information required by 40 CFR 403.12 (p).

PENALTIES FOR VIOLATIONS

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- 1. If any wastewater exceeds the pollutant limitations established in this Ordinance, the Board of Commissioners may:
 - (a) Reject the wastewater.
 - (b) Require the discharger to pretreat or modify the wastewater to meet the pollutant limits established in the Ordinance.
 - (c) Fine the violator in accordance with Section II. P. Take such other legal action which the Board may deem appropriate.

M. <u>CONFIDENTIAL</u> INFORMATION

- 1. The Director shall protect any information (other than effluent data) contained in the application forms, or other records, reports or plans as confidential upon showing by any person that such information, if made public, would divulge methods or processes entitled to protection as trade secrets of such person. Said information must be designated as confidential at the time it is provided to GSD.
- 2. Information accepted by GSD with a claim for confidentiality shall be safeguarded by GSD and shall not be transmitted to any government agency or to the public until and unless a fifteen-day notification is given to the user. During the fifteen-day period, the user shall submit a justification of confidentiality to the Director. A determination of confidentiality shall be made by the Director pursuant to regulation used by IDEM.
 - 3. This section shall not apply to U.S.EPA and IDEM which shall have immediate and unlimited access to any and all information collected by GSD in accordance with its pretreatment program.

N. <u>EMERGENCY SUSPENSION OF SERVICE AND INDUSTRIAL WASTEWATER</u> <u>DISCHARGE PERMIT</u>

Notwithstanding any other provision of this ordinance, the Director may, without notice or hearing, suspend the wastewater treatment service and/or an Industrial Wastewater Discharge Permit when such suspension is necessary, in the opinion of the Director, in order to stop an actual or threatened discharge which presents or may present an imminent or substantial endangerment to the health or welfare of persons or to the environment, causes interference to the wastewater treatment system, or causes GSD to violate any condition of its NPDES permit. Any Industrial User notified of a suspension of the wastewater treatment service and/or the Industrial Wastewater

Discharge Permit shall immediately stop or eliminate the contribution. In the event of a failure of the person or Industrial User to comply voluntarily with the suspension order, the Director shall take such steps as deemed necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the wastewater treatment system or endangerment to any individuals. The Director shall reinstate the Industrial Wastewater Discharge Permits and/or the wastewater treatment service upon proof of the elimination of the noncomplying discharge. The Industrial User shall pay all costs associated with disconnecting from and reconnecting to the GSD sewer. A detailed written statement submitted by the Industrial User describing the cause(s) of the harmful contribution and the measures taken to prevent any future occurrence shall be submitted to the Director within five (5) days of the date of occurrence.

O. REVOCATION

The Director may revoke the Industrial Wastewater Discharge Permit of any person or Industrial User for any of the following:

- 1. Violation of any provision of this ordinance or of any applicable state and/or federal law including regulations;
 - 2. Failure to timely file any discharge reports:
 - 3. Failure to factually report wastewater characteristics;
- 4. Refusal of reasonable access to the user's premises for the purpose of review of records, inspection, or monitoring; or
 - 5. Violation of any condition of the industrial wastewater discharge permit.

P. NOTICE OF REVOCATION

Except in cases of willfulness or those in which the public health interest or safety requires otherwise, the revocation, withdrawal, or suspension of an Industrial Wastewater Discharge Permit is lawful only if, before the institution of proceedings thereof, the permittee has been given:

- 1. Notice by the Director, in writing, of the facts or conduct which may warrant the action.
- 2. Opportunity to demonstrate or achieve compliance with all lawful requirements.

Q. <u>NOTIFICATION OF VIOLATION</u>

Whenever the Director finds that any Industrial User has violated or is violating this ordinance, or any condition of its Industrial Wastewater Discharge Permit, the Director may serve upon such person a written notice stating the nature of the violation. Within fifteen (15) days of the date of the notice, a plan for the satisfactory correction thereof shall be submitted to GSD by the Industrial User.

R. SHOW CAUSE HEARING

The Director may order any Industrial User who causes or allows an unauthorized discharge to enter the wastewater treatment plant to show cause at a GSD hearing why the proposed enforcement action should not be taken. A notice shall be served on the Industrial User specifying the time and place of a hearing to be held before the Director or an appointed hearing officer, the reasons why the action is to be taken, the proposed enforcement action, and directing the Industrial User to show cause why the proposed enforcement action should not be taken. The notice of the hearing shall be served personally or by registered or certified mail at least ten (10) days before the hearing.

S. APPEALS

An Industrial User may file with the Director a written request for reconsideration within fifteen (15) days of any action, decision or determination taken as part of GSD's administrative enforcement program. The request shall set forth in detail the facts surrounding the request. The Director shall make his/her final determination within ten (10) days of the request.

The Industrial User may further appeal to the Board within fifteen (15) days of any final decision of the Director.

T. PUBLICATION OF VIOLATIONS

GSD shall annually publish in the largest local newspaper a list of the industrial Users which have been in Significant Noncompliance during the twelve (12) previous months. The notification shall also summarize any enforcement actions taken against the Industrial User(s) during the same twelve (12) months.

U. HAULED WASTEWATER

1. Generators and transporters of septic tank liquid and other hauled wastewater may be allowed to discharge at the GSD Wastewater Treatment Plant at designated area and at such designated times as established by the Director provided such wastes do not violate Section II

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- or Section III of this Ordinance or other requirements established or adopted by the GSD.
- 2. No waste hauling vehicle will be allowed to discharge any hauled waste without obtaining a discharge permit under Section III of this Ordinance.
- 3. Any hauled wastewater is subject to sampling and analysis by the GSD. Samples will be analyzed in accordance with 40 CFR 136 or other methods approved by USEPA or IDEM for evaluation of wastewater.
- 4. Rates and charges for discharge of hauled wastewater and required sampling and analysis will be as provided in Section V.

V. <u>ENFORCEMENT RESPONSE GUIDE</u>

Enforcement of this ordinance and industrial wastewater discharge permits shall be according to the terms and procedures contained in the GSD's Enforcement Response Guide and any actions allowed by GSD shall be in addition to those penalties set out in Section II P of this Ordinance.

SECTION IV

BUILDING SEWERS

A. <u>CONNECTION PERMITS</u>

- 1. <u>Permit Required</u>. It shall be unlawful to cause or allow the repair, modification or connection of a building sewer to a public sewer or another building within GSD without a valid sanitary sewer connection permit issued by GSD.
- 2. <u>Minimum Elevation for Gravity Connection</u>. A sewer connection permit will not be granted to homes or buildings where the lowest elevation to have gravity sanitary service is less than one (1) foot above the top of manhole casting elevation of either the first upstream or downstream manhole on the public sewer to which the connection is to be made. If the first upstream or downstream manhole is at a higher elevation due to the natural topography of the area, an alternate manhole will be selected for the purpose of determining this measurement.
- 3. Permit Fee. Fees for a sanitary sewer connection permit shall be adopted in a separate ordinance in which such fees are set. The Board of Commissioners may revise the amount of such fee but not more often than once each calendar year. The fee shall cover the costs of mandatory inspection by GSD of the building sewer and its

connection, and any reinspection that may be necessary because of remedial construction.

- Modification of Permit Fee. The Board may modify the fee for connection permits under a public improvement resolution or in the exercise of GSD's general powers and duties to construct GSD sewers.
- Applications. An application for such connection permit shall be made on a form prescribed by the Director and may require the following information:
 - (a) Name and address of the owner:
 - (b) The name, address and telephone number of the contractor;
 - Address, and if necessary, the legal description of the premises where the work is to be done;
 - Plans for the building sewer and connections, which at a minimum must consist of drawing(s) of the building, the parcel boundaries, the connection detail, materials of construction, and installation method; (e) information as may be deemed reasonable and necessary by the Director to carry out the provisions of this ordinance.

6. Who May Apply.

- Applications for a sewer connection permit shall only be made by the following:
 - A plumbing contractor licensed by the state. (i)
 - A contractor (other than a plumbing contractor) who has met the surety bond and insurance requirements of the City's Building Department. Surety bond requirements are met if the building sewer contractor has filed and maintains with GSD a surety bond. Insurance requirements are met if the contractor has secured and maintains a public liability and property damage insurance policy.
- GSD may deny permits to any applicant who is currently in violation of this ordinance or any other applicable regulations.
- Application by persons other than those listed above may be accepted at the discretion of the Director.

- 7. Conformance with Indiana Fire Prevention and Building Safety Regulations. All sewer work and other construction actually performed on or associated with the building drain, building sewer and the connection of the building drain, building sewer and the connection of the building sewer to the public sewer shall be in accordance with the rules and regulations of the Indiana Fire Prevention and Building Safety Commissions and stated specifications of the City's Building Department.
- 8. <u>Expiration of Permit</u>. The connection permit shall expire if work is not initiated within one hundred fifty (150) days from the date of issuance. The Director may, however, for good cause, extend the duration of the permit for a reasonable period.
- 9. <u>Provisions of Ordinance Supplemental to Other Construction Ordinances</u>. This ordinance shall not be construed as contravening any ordinances of the City relating to construction within public streets, roads, or right-of-way, but rather shall be supplemental thereto.
- 10. <u>Enforcement of Bond</u>. Any action may be initiated in a court of competent jurisdiction relative to the bond provided for in this ordinance as follows:
 - (a) GSD's Counsel may initiate proceedings to forfeit a bond:
 - (i) As a penalty for repeated violations by a contractor, his agents or employees; or
 - (ii) To indemnify GSD against any loss, damage or expense sustained by GSD by reason of the conduct of the contractor, his agents or employees.
 - (b) A person, partnership, or corporation which holds a property interest in the real estate on which sewer work has occurred may bring an action against the bond for expenses necessary to correct code deficiencies therein after written and after the contractor has been given a reasonable opportunity to correct its performance. If such a person, partnership, or corporation prevails in any action brought under this section, he may also be allowed by the court to recover as part of the judgment a sum equal to the aggregate amount of costs and expenses, including attorney's fees based on actual time expended as determined by the court to have been reasonably incurred by the plaintiff for or in connection with the commencement and prosecution of such action.

B. PROHIBITION AGAINST CLEAR WATER DISCHARGES

- 1. Except as provided in this section, it shall be unlawful to cause or allow the connection of a building sewer to a public sewer or other building sewer when such building sewer has any of the following sources of clear water connected to it.
 - (a) Foundation/footing drains;
 - (b) Sump pumps with foundation drains connected;
 - (c) Roof drains:
 - (d) Heat pump discharge;
 - (e) Cooling water, or
 - (f) Any other sources of unpolluted water.
- 2. In addition to any other provision provided herein, any person found violating any provision listed in this section may be required to correct such connections at his expense.
- 3. In the event an industrial or commercial entity finds it necessary to discharge unpolluted water consisting of cooling water and/or steam condensate into the public sewer and the sewer has the capacity to receive such clear water without affecting existing or future users, GSD may enter into an agreement for such discharge that will define a metering system or any other requirement deerned necessary to measure the flow. The user rate for such discharge shall be calculated by GSD in accordance with its current fee schedule.

C. <u>DEWATERING DISCHARGE TO A SEWER SYSTEM</u>

- 1. It shall be unlawful to discharge the water resulting from dewatering activity to a storm or sanitary sewer, whether such activity is temporary or permanent, without a valid discharge permit issued by GSD. As a condition to the issuance of a permit, the applicant shall install, maintain and operate at the user's expense a metering device to measure the flow associated with such discharge and provide required analytical data. If the discharge is groundwater due to excavation/ construction activities, an initial analysis shall be performed to determine the presence of organic pollutants.
- 2. Based upon the volumes determined by the measurements, the permit holder will be charged appropriate user fees in accordance with GSD's current fee schedule.

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- 3. An appropriate pretreatment process shall be required, prior to discharge, based upon the nature and extent of pollutants (if any).
- 4. Users shall be required to submit monthly reports, subject to verification if authorized by the Director, to serve as the basis for billing, with any necessary adjustments in the amount made after verification.

D. MANDATORY INSPECTION

- Notification. It shall be the duty of the holder of a connection permit to 1. notify GSD in the manner described on the sanitary sewer connection permit that the sewer work is available for inspection. GSD will conduct inspections on building sewer connections from 8:00 a.m. to 5:00 p.m. local time, Monday through Friday, except for observed GSD holidays. The building sewer, in its entirety from the foundation to the connection with the public sewer or existing lateral, must be exposed for inspection and be properly bedded in accordance with GSD's standard specifications to one-half (1/2) the diameter of the building sewer. It is further the duty of the permit holder to install safety barricades, fences, or other safety measures while waiting for an inspection. The permit holder may backfill the building sewer trench if GSD has not made an inspection within a four-hour period after notice has been given to GSD. In the event the building sewer is not completed and ready inspection upon the inspector's arrival or if the notification is made after 1:00 p.m. local time, Monday through Friday, the permit holder shall make the building sewer and connection available for a four-hour period on the following GSD work day. An inspection may be waived with or without conditions with the approval of the Director.
- 2. Right of Entry. GSD shall have the right of entry to, upon or through any premises, for purposes of inspection of sewer work and any other construction activity performed on or associated with the connection of the building sewer to the GSD sewer including inspection for clear water discharges into the sewer.

E. BUILDING SEWER MAXIMUM LENGTH

Except for building sewers serving single - or double - family residences, or single-owner industrial facilities, connection permits will not be issued for building sewers exceeding six hundred (600) feet in length as measured from the outside of the building to the center of the public sewer, unless the sewer is constructed in a dedicated easement or right-of-way. No more than one hundred (100) feet of a building sewer shall exist within public right-of-way.

F. MAXIMUM NUMBER OF CONNECTIONS

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No more than one (1) building will be permitted to connect to a building sewer. Sewers with more than one (1) connection must be constructed as a public sewer in a dedicated easement, unless GSD determines that an exception is justified.

G. BUILDING SEWER RESPONSIBILITY

It shall be the responsibility of the property owner(s) whose property is benefited to provide for, install, and make private connections for the use of their premises to an existing public or building sewer. Further, it shall be the responsibility of the owner to make all necessary repairs, extension, relocations, changes or replacements thereof, and of any accessories thereto. These requirements may be altered, modified or waived at the discretion of the Director when it is shown that compliance is not possible due to extenuating circumstances.

Н. EXISTING FOUNDATION DRAINS, ROOF DRAINS, DEFECTIVE BUILDING SEWERS, AND SUMP PUMPS

In the event GSD determines that a violation of this section exists, GSD shall notify the violator, by certified mail, that such violation exists. The notice shall describe the nature of the violation and the corrective action(s) that must be taken. Such corrective action shall be taken within thirty (30) days of receipt of such notice.

l. **PENALTIES**

Any person violating any provision of this section shall be subject to the penalties of this ordinance in accordance with Sections II. N, and further, at the discretion of the Director, may be required to correct such violation at his expense.

J. APPEAL

Any person affected by the exercise of any discretionary authority delegated by this article to any official of GSD and who objects to the decision made or action taken by such official shall be entitled to a hearing before the Board upon such objection. The person desiring such hearing before the Board shall file a written request for a hearing, including a statement of his objections, with the Director, who shall call the same to the attention of the Board. Such requests must be filed with the Director within ten (10) calendar days from the date of the action being appealed. The appeal shall be scheduled before the Board within thirty (30) calendar days after such request is filed. Notice shall be given to the appellant identifying the time, place, and date of the appeal

at least ten (10) calendar days prior to the scheduled date. The Board may hear any evidence it deems relevant. After the hearing, the Board may confirm, reverse or modify the decision or action. The order of the Board shall be final. Such order shall be made within (10) calendar days after the hearing and shall be in writing and sent to the appellant.

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Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 5 – STANDARD OPERATING PROCEDURES

- APPENDIX 5-1 GARY LIFT STATIONS SOPS FOR MECHANICAL EQUIPMENT
- APPENDIX 5-2 SOPS COMBINED SEWER OVERFLOW MINIMIZATION AND WET WEATHER GUIDELINES
- APPENDIX 5-3 RAW SEWAGE PUMP AND REGULATOR GATE SOP

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDI:	X 5-1 – GARY LIF	T STATIONS	SOPS FOR M	ECHANICAL EQ	UIPMENT

P. M.

GARY LIFT STATIONS SOP'S FOR MECHANICAL EQUIPMENT

Safety Information for Lift Stations

- 1. Obtain all White River Environmental Partnership (W.R.E.P.) required safe work permits
- 2. Follow all OSHA requirements when entering into a confined space.
- 3. Always notify your Supervisor of any safety hazards.
- 4. Follow all lock out/tag out procedures before working on a piece of equipment.
- 5. Always wear your Personal Protective Equipment (P.P.E.).
- 6. Safety comes first do not take chances!
- 7. Be sure to calibrate your gas analyzer each day before use.
- 8. When removing a piece of equipment from operation for repair, isolate all inlet and or discharge valves; be sure to re-open when the job is completed.
- 9. Have your emergency assistance telephone #'s available at all times in case of an emergency, follow designated emergency procedures set forth by the safety department.
- 10. Pumps start automatically, keep your distance and always re-install rotating parts covers.
- 11. Notify Operations when completed.

P-40-16-01, 02, 03, Marshalltown Station Fairbanks Morse Submersible Style Pumps Quarterly PM

- 1. Inspect the Fairbanks Morris pumps while in operation, listen for any unusual noises and excessive vibration, document on the work order any potential problems with the motor or pump.
- 2. Operate and check the submersible style pumps (3 units) that's mounted in a dry pit with a handheld thermometer and record your findings on the work order, should not exceed 180 degrees F.
- 3. Check the pressure gauges for proper operation, replace as needed.
- 4. Check all hardware for tightness.
- Clean up any grease and oil messes and dispose of all contaminated oil and or rags per City and State codes.
- 6. Check the electrical power supply cord to the pumps for any cracks or burnt spots, repair or replace if needed.

P-40-16-01, 02, 03, Marshalltown Station Faribanks Morse Drive Motors and Pumps Quarterly PM

- 1. Visually inspect the pump for seals that may be leaking and document any potential problem.
- 2. These pumps are sealed and require no oil changes. (submersible style).

P-40-19-01, 02, 03, 04 – Marquette Lift Station 75 HP Cascade Storm Pumps Weekly PM

- 1. Inspect the pumps while in operation, listen for any unusual noises or excessive vibration, document on the work order any potential problems with the motor or pump
- 2. Check the motor with a handheld thermometer and record your findings on the work order. The bearings should not exceed 180 degrees F.
- 3. Check the pressure gauges for proper operation, replace as needed.
- 4. Check all hardware for tightness.
- 5. Reinstall rotating part covers.
- 6. Check the oil levels in the pumps and add if needed with high quality R&O 220.
- 7. Clean up any grease and oil messes and dispose of all contaminated oil and or rags as per City and State codes.

P-40-19-01, 02, 03, 04, Marquette Lift Station 75 HP Cascade Storm Pumps Quarterly PM

- 1. Lube flush the motor inboard and outboard bearings with LC 65 grease or equal, be cautious do not over grease.
- 2. Change the oil in the pump every 2500 hours, which is about every 3 months of 24-7 operation.
- 3. Check and lubricate the pump valving, and or gates grease with LC 65 grease.
- 4. Grease the coupling with LC 65.
- 5. A qualified person should check the pump electrical connections to ensure they are tight and that all corrosion is removed.
- 6. Wipe off the motor cooling air inlet fins.

P-40-22-01, 02, 03, Spencer Street Lift Station (Sunrise) Sewer Pumps Quarterly PM

- 1. Lube flush the motor inboard and outboard bearings with LC 65 grease or equal, be cautious do not over grease.
- 2. Change the oil in the pump every 2500 hours, which is about every 3 months of 24-7 operation.
- 3. Check and lubricate the pump valving and or gates, grease with LC65 grease.
- 4. Grease the coupling with LC 65.
- 5. A qualified person should check the pump electrical connections to ensure they are tight and that all corrosion is removed.
- Wipe off the motor cooling air inlet fins.

P-40-15-01, 02, 03, 2nd & Tennessee Lift Station Pump Quarterly PM

- 1. Lube flush the motor inboard and outboard bearings with LC 65 grease or equal, be cautious do not over grease.
- 2. Change the oil in the pump every 2500 hours, which is about every 3 months of 24-7 operation.
- 3. Grease the coupling with LC 65.
- 4. A qualified person should check the pump electrical connections to ensure they are tight and that all corrosion is removed.
- 5. Wipe off the motor cooling air inlet fins.

Gary Lift Station Monthly PM 586

Lift-Station Monthly PM-

- 1. Check the security, locks, fence/hatches, etc. Report on the work order any potential problems.
- 2. Cut the grass and weed eat, cut 5 feet all the way around the outside of the station.
- 3. Keep the drive area in good condition, snowplow in winter, gravel or concrete repair as needed.
- 4. Always make sure lids and latches are in good condition, replace as needed.
- 5. Check the piping to ensure all the gate valves, air release valves, and check valves are working properly.
- 6. Check the wet well level equipment, piezo, ball floats, and make sure they are properly secured and clear of grease.
- 7. Check the wet well for excessive grease and clean as needed. This includes bar screens if applicable.
- Check the electrical control panel to ensure all connections is tight; an Electrician shall clean and remove tarnish or deterioration as needed.
- 9. Check the control panel for seal failure repairs as needed.
- 10. When your work is completed, be sure to secure the facility by locking all doors and pad locks.
- 11. Double check to ensure you have put the pumps back on electrically and that they are in the auto mode.
- 12. Note, this daily check list and monthly P.M. generated work order will be used to check the station daily and perform the above tasks as well as any other needed to keep this station in good operating condition. Your time shall be applied to this W.O. number for the entire Month.
- 13. Check the dehumidifier to ensure that it is working, if applicable.
- 14. Refer to the individual lift station checklist that is presently used for each station. This checklist has specific information for each facility. Complete this checklist and Monthly work order and turn in the information to your supervisor.

- 15. Work safe follow all OSHA regulations, wear your PPE.
- 16. In the submersible stations check the condition of the rails and pull chains.
- 17. Inspect the submersible pumps while in operation listen for any unusual noises and excessive vibration document on the work order any potential problems with the motors or pumps.
- 18. Check the Telemetry system and the Alarm system for proper operation.
- 19. Check all the hardware for tightness.
- 20. Clean up any grease and oil messes and dispose of all the contaminated oil and or rags as per City and States codes.
- 21. Check the electrical power supply cord to the pumps for any cracks or burnt spots repair or replaced if needed.
- 22. Electrician should test each power lead for the correct amps draw and document his findings. If the amp draw is higher than normal troubleshoot the pump and repair the problem, remember that a corrective maintenance work request must be written.
- 23. Check the discharge piping for blown gaskets or leaks, document your findings.
- 24. Check the pump guide rails for deterioration, and ensure they are anchored to the wall and or floor.

Lift-01, 460-64 Hobart Street Storm Monthly PM

- 1. Check the security, locks, fence, etc. Report on the work order any potential problems.
- 2. Cut the grass and weed eat, cut 5 feet all the way around the outside of the station.
- 3. Keep the drive area in good condition, gravel or concrete repair as needed.
- 4. Always make sure lids and latches are in good condition, replace as needed.
- 5. Check the piping to ensure all the gate valves, air release valves, and check valves are working properly.
- 6. Check the wetwell level equipment, piezo, ball floats, and make sure they are properly secured and clear of grease.
- 7. Check the wetwell for excessive grease and clean as needed. This includes bar screens if applicable.
- 8. Check the electrical control panel to ensure all connections is tight, a qualified person shall clean and remove tarnish or deterioration as needed.
- 9. Check the covert panel for seal failure repairs as needed.
- 10. When you work is completed, be sure to secure the facility by locking all doors and pad locks.
- 11. Double check to ensure you have put the pumps back on electrically and that they are in the auto mode.

A-40-01, 460-64 Hobart Street Storm Alarm System Weekly PM

1. Activate the system to ensure that its operable, document any potential problems and make repairs as needed.

P-40-01, 02, 460-64 Hobart Street Storm Submersible Pumps Weekly PM

- 1. Inspect the submersible pumps while in operation listen for any unusual noises and excessive vibration document on the work order any potential problems with the motor or pump.
- 2. Check the pressure gauges for proper operation, replace as needed.
- 3. Check all hardware for tightness.
- 4. Clean up any grease and oil messes and dispose of all contaminated oil and or rags as per City and State codes.
- 5. Check the electrical power supply cord to the pumps for any cracks or burnt spots repair or replace if needed.
- 6. Test each power lead for the correct amps draw and document your findings. If the amp draw is higher than normal troubleshoot the pump and repair the problem, remember that a corrective maintenance work request must be written.
- 7. Check the discharge piping for blown gaskets or leaks, document findings.
- 8. Check the pump guide rails for deterioration, and ensure they are anchored to the wall and or floor.

T-40-01-01, 460-64 Hobart Street Storm Telemetry Weekly PM

1. Check the system to ensure it's activated and is in proper working order. Raise the float or the source of signal to ensure it calls the correct location. Report any potential problems to your Supervisor.

Lift-01, 460-64 Hobart Street Storm Station Electrical Inspection Semi-Annual PM

- 1. Check the electrical areas for cleanliness.
- 2. Tighten all electrical connections.
- 3. Replace indicating lamps as needed.
- 4. Replace station lighting as needed.
- 5. Check and clean all contact as needed.
- 6. Check all the switchgear for proper operation.
- 7. Check the wetwell and level controls and make repairs as needed.
- 8. Ensure that dispatch receives all the alarm codes that is sent from the covert system verify by setting off alarms then make contact with dispatch.
- 9. Ensure blower, sump pump, dehumidifier, and the station air handlers are working properly.
- 10. Check all the building heaters and panel heaters.
- 11. A corrective work request must be written if problems are found, be sure to give a documented list to your Supervisor.

P-40-01-01, 02, 460-64 Hobart Street COE/INDOT Storm, E.G. Submersible Pumps Annual PM

1. Using the correct formula do a pump down test on each pump. This will or should indicate the capacity and general condition of the pump. If this test indicates poor performance, the pump must be pulled and repaired as needed.

2.

Gary Lift Station Annual PM 591

Submersible Pumps Annual PM

- 1. Using the correct formula do a pump down test on each pump. This will or should indicate the capacity and general condition of the pump. If this test indicates poor performance, the pump must be pulled and repaired as needed.
- 2. Check the electrical areas for cleanliness.
- 3. Tighten all electrical connections.
- 4. Replace indicating lamps as needed.
- 5. Replace station lighting as needed.
- 6. Check and clean all contact as needed.
- 7. Check all the switchgear for proper operation.
- 8. Check the wet well and level controls and make repairs as needed.
- 9. Ensure that dispatch receives all the alarm codes that is sent from the covert system verify by setting off alarms then make contact with dispatch.
- 10. Ensure blower, sump pump, dehumidifier, and the station air handlers are working properly.
- 11. Check all the building heaters and panel heaters.
- 12. A corrective work request must be written if problems are found, be sure to give a documented list to your Supervisor.

Dry Pit Lift Station "New" Monthly PM

- 1. Check the security, locks, fence, etc., report on the work order any potential problems.
- 2. Cut the grass and weed row fence if applicable.
- 3. Keep the station painted if applicable inside and out.
- 4. Keep the drive area in good condition, gravel or concrete, repair as needed.
- 5. Always make sure lids and latches are in good condition, replace as needed.
- 6. Sweep and clean floors, wipe piping clean.
- 7. Clean floor drains and ensure the sump pump is working properly.
- 8. Check the piping to ensure all the gate valves, air release valves and check valves are working properly.
- 9. Check the wetwell level equipment; pressure transducer, ball floats, make sure they are properly secured and clear of grease.
- 10. Check the wetwell for excessive grease and clean as needed. This includes bar screens if applicable.
- 11. Check the electrical control panel to ensure all connections are tight. A qualified person shall clean and remove tarnish or deterioration as needed.
- 12. Check the control panel for seal failure, repair as needed.
- 13. When your work is finished be sure to secure the facility by locking all doors and pad locks.
- 14. Double check to ensure you have put the pumps back on electrically and that they are in the auto mode.
- 15. Check the dehumidifier if applicable to ensure it's working properly, repair if needed
- 16. Activate the system to ensure that it's operable, document any potential problems and make repairs as needed.

- 17. Check the bar screen, clean and remove debris, dispose of debris in the proper container. Do not leave lying on the ground or concrete surface.
- 18. Inspect the screen to ensure that all the bars are in place and that they are firmly attached.
- 19. Pick up and dispose of any debris around the area.
- 20. Check the flow controls to ensure they are working properly and document any problems repair as soon as possible.
- 21. Inspect the pumps while in operation, listen for any unusual noises and excessive vibration, document on the work order any potential problems with the motor or pump.
- 22. Check the shaft packing gland to ensure that the proper amount of water is dripping from the pump packing gland, adjust as needed.
- 23. Check the outboard and inboard bearings of the pump and motor with a handheld thermometer and record your findings on the work order. The bearings should not exceed 180 degrees F.
- 24. Clean the packing gland bowl drain lines.
- 25. Check the pressure gauges for proper operation, replace as needed.
- 26. Check all hardware for tightness.
- 27. Reinstall rotating part covers.
- 28. Check the oil levels in the pumps and add if needed with high quality R&O 150.
- 29. Check the coupling to ensure it has plenty of lubricant, grease with LC 65.
- 30. Clean up any grease and oil messes and dispose of all contaminated oil and or rags as per City and State code.
- 31. Check to ensure the seal water to the pump is at the proper flow and pressure should be about 35 PSI at the pump. Clean the seal water screen and the Solenoid switches.
- 32. Activate the dialing system to ensure that it is working properly, document on the work order any potential problems and repair as needed.

P-40-07-01, 02, 03, 04, 27^{th} and Chase St. Worthington Lift Station Pump Quarterly PM

- 1. Lube flush the motor inboard and outboard bearings with LC 65 grease or equal, be cautious do not over grease.
- 2. Change the oil in the pump, every 2500 hours, which is about every 3 months of 24-7 operation, with R&O 150 or equal.
- 3. Check and lubricate the pump valving, and or gates grease with LC 65 grease.
- 4. Grease the coupling with LC 65.
- 5. A qualified person should check the pump electrical connections to ensure they are tight and that all corrosion is removed.
- 6. Wipe off the motor cooling air inlet fins.
- 7. Quarterly Review I.T R Reports.
- 8. Quarterly Review Flow Meter Calibration Reports.

P-40-07-05, 06, 27th and Chase St. "New" Sump Pump Quarterly PM

- 1. Check the pit for debris and clean.
- 2. Actuate the level control devise, floats, etc. to ensure the pumps will kick on and off.
- 3. Check to ensure the pump is actually pumping and running smooth.
- 4. Before leaving the site make sure all the power has been restore to the pumps.
- 5. Check for discharge pipe leaks and repair as needed.

LG-40-11-01, 42^{nd} and Johnson Lift Station Inland Detroit Diesel Allison Generator Annual PM

- 1. Have a service tech come in a check the valve clearances
- 2. Check or replace injectors and check the timing.
- 3. Inspect the wiring.
- 4. Test engine starts operation.
- 5. Drain the water from the fuel tank.
- 6. Re-torque the3 fan bolts.
- 7. Document on the work order, any recommendations or potential problems.

P-40-12-01, 02, 03, 48th and Carolina Street Lift Station Cascade Storm Pumps MONTHLY PM

- 1. Inspect the pumps while in operation, listen for any unusual noises and excessive vibration, document on the work order any potential problems with the motor or pump.
- 2. Check the shaft packing gland to ensure that the proper amount of grease SAE 10 oil is in the cup, refill as needed.
- 3. Check motor with a handheld thermometer and record your findings on the work order. The bearings should not exceed 180 degrees F.
- 4. Clean the packing gland bowl drain.
- 5. Check all the hardware for tightness.
- 6. Reinstall rotating part covers.
- 7. Check the oil levels in the pumps and add if needed with high quality

P-40-12-01, 48th and Carolina Street Lift Station Cascade Pump (NEW) Quarterly PM

- 1. Lube flush the motor inboard and outboard bearings with LC 65 grease or equal. Be cautious do not over grease.
- 2. Change the oil in the pump every 2500 hours, which is about every 3 months of 24-7 operation.
- 3. Check and lubricate the pump valving and or gates, grease with LC 65 grease.
- 4. Grease the coupling with LC 65.
- 5. A qualified person should check the pumps electrical connections to ensure they are tight and that all corrosion is removed.
- 6. Wipe off the motor cooling air inlet fins.

DRY Pit Lift- Station Electrical Inspection/ Annual PM

- 1. Check the electrical areas for cleanliness.
- 2. Tighten all electrical connections.
- 3. Replace indicating lamps as needed.
- 4. Replace station lighting as needed.
- 5. Check and clean all contact as needed.
- 6. Check all the switchgear for proper operation.
- 7. Check the wet well and level controls and make repairs as needed.
- 8. Ensure that dispatch receives all the alarm codes that are sent from the covert system, verify by setting off alarms then make contact with dispatch.
- 9. Ensure sump pump, dehumidifier and the station air handlers are working properly.
- 10. Check all the building heaters and panel heaters.
- 11. A corrective work request must be written if problems are found, be sure to give a documented list to your Supervisor.
- 12. Using the correct formula do a pump down test on each pump. This will or should indicate the capacity and general condition of the pump. If this test indicates poor performance, the pump must be pulled and repaired as needed.

13.

CR-40-17-01, 15th and Clay (new) Sanitary and Storm Overhead Crane Annual PM

1. Inspect this lift-tech crane, document and correct any potential problems. Perform all necessary PM's as per the O&M manual. This is an OSHA required inspection and a file must be maintained (service work). Write a corrective maintenance work order to make needed repairs.

CR-40-17-02, 15th and Clay (new) Sanitary and Storm Overhead Crane Annual PM

1. Inspect this Yale crane, document and correct any potential problems. Perform all necessary PM's as per the O&M manual. This is an OSHA required inspection and a file must be maintained (service work). Write a corrective maintenance work order to make needed repairs.

LG-40-17-01, $15^{\rm th}$ and Clay (new) Sanitary and Storm Cat. SR4B Diesel Generator Daily PM

- 1. Perform the generator load test.
- 2. Power factor check; see page 77 in the manual.
- 3. Check the stator winding temperature, measure and record.
- 4. Do an inspection of the generator and motor, checking for dirt, debris, and foreign objects, clean as needed.
- 5. Check the engine oil levels, add oil if needed.
- 6. Check the air inlet filter indicator.
- 7. Check the coolant level, add if needed with 50/50 anti-freeze.
- 8. Document and record findings on the work order.

LG-40-17-01, $15^{\rm th}$ and Clay (new) Sanitary and Storm Cat. SR4B Diesel Generator monthly PM

- 1. Measure and record the bearing temperature.
- 2. Check and tighten the electrical connections as needed.
- 3. Clean the generator; see page 69 in the cat. Manual.
- 4. Check the space heater to ensure it's working properly.
- 5. Do a walk around inspection and look for oil leaks, antifreeze, loose hardware, etc., make repairs as needed.
- 6. Check alternator belts for tightness.
- Check the level in the fuel tank and refill when needed (generator).

LG-40-17-01, 15^{th} and Clay (new) Sanitary and Storm Cat. SR4B Diesel Generator Semi-Annual PM

- 1. Check the stator leads; see page 80 in the cat. manual.
- 2. Check the batteries and remove corrosion as needed.
- 3. Change the engine motor oil with cat. oil-deo(API CF-4) or equal capacity 128 quarts.
- 4. Change the engine oil filter, cut the element apart and inspect for metal. Replace with a new filter; see page 64 in the cat. manual located in the library.
- 5. Grease all zerk fittings with multipurpose molybdenum grease #2 grade.
- 6. Change the fuel filters; see page 68 and 69 for specifications.
- 7. Do not mix liquid coolant additives and additive elements, use one or the other.
- 8. Check the instrumentation engine control systems, and the generator control system, tighten fittings and remove any corrosion.
- 9. Every 3000 hours check the engine valve lash and have adjusted as needed.
- 10. Refer to the Cat. O&M specifications before serving the engine or the generator.

LG-40-17-01, 15th and Clay (new) Sanitary and Storm Cat. SR4B Diesel Generator Annual PM

- 1. Lubricate the ball bearings, see page 66 in the O&M manual.
- 2. Lubricate the spherical bearings, see page 67 in the O&M manual.
- 3. Check the rotating rectifier, see page 77 in the O&M manual.
- 4. Inspect the generator thoroughly and report any problems.

M-40-17-12, $15^{\rm th}$ and Clay (new) Sanitary and Storm DBS Drive, Detritus/Degritter Weekly PM

- 1. Inspect the oil in the main gear housing; use Mobil 620 gear oil if needed.
- 2. Drain the condensate in the main gear housing.
- 3. Check the oil levels in gear reducers and add as needed.
- 4. Check hydraulic hoses and fittings to ensure they are not leaking, repair or replace as needed.
- 5. Wipe excess oil from the area, keep clean.

$M\text{-}40\text{-}17\text{-}12,\,15^{\text{th}}$ and Clay (new) Sanitary and Storm DBS Drive, Detritus/Degritter Monthly PM

1. Grease the main bearing grease fitting 6 pumps while in operation. Grease lubriplate Mag-00 or equal, never mix greases and or oils.

M-40-17-12, 15th and Clay (new) Sanitary and Storm DBS Drive, Detritus/Degritter Semi-Annual PM

- 1. Change the oil in the main gear housing with the oil recommended on page 2 of the O&M manual 85W 140 or equal.
- 2. Change the oil filter using a 25 micron hyd. oil filter such as Fleetguard HF-6520.

M-40-17-12, 15th and Clay (new) Sanitary and Storm DBS Drive, Detritus/Degritter Annual PM

1. Inspect the complete drive unit and collector for corrosion, bent drags, etc. report on the work order any potential problems.

P-40-17, 11, 12, 13, 14, 15^{th} and Clay (new) Sanitary and Storm ABS Submersible Pumps Monthly PM

- 1. Inspect the ABS submersible pumps while in operation, listen for any unusual noises and excessive vibration, document on the work order any potential problems with the motor or pump.
- 2. Check the pressure gauges for proper operation replace as needed.
- 3. Check all hardware for tightness.
- 4. Clean up any grease and oil messes and dispose of all contaminated oil and or rags as per City and State codes.
- 5. Check the electrical power supply cord to the pumps for any cracks or burnt spots repair or replace if needed, no splices.
- 6. Test each power lead for the correct amps draw and document your findings. If the amp draw is higher than normal troubleshoot the pump and repair the problem, remember that a corrective maintenance work request must be written.
- 7. Check the discharge piping for blown gaskets or leaks, document your findings.

P-40-17-15, 16, $15^{\rm th}$ and Clay (new) Sanitary and Storm Hayward Gordon Pumps Monthly PM

- 1. Inspect the pumps while in operation, listen for any unusual noises and excessive vibration, document on the work order any potential problems with the motor or pump.
- 2. Check the shaft packing gland to ensure that the proper amount of water is dripping from the pump packing gland; adjust as needed, do not run packing dry.
- 3. Check the outboard and inboard bearings of the pump and motor with a handheld thermometer and record your findings on the work order. The bearings should not exceed 170 degrees F.
- 4. Clean the packing gland bowl drain lines.
- 5. Check the pressure gauges for proper operation, replace as needed.
- 6. Check the hardware for tightness.
- 7. Reinstall rotating part covers.
- 8. Check the oil levels in the pumps and add if needed with AW 68 or Shell Tellus 68 or equal.
- 9. Check the coupling to ensure it has plenty of lubricant, grease with LC 65.
- 10. Clean up any grease and oil messes and dispose of all contaminated oil and or rags as per City and State codes.
- 11. Check to ensure the seal water to the pumps is at the proper flow and pressure should be about 35 psi at the pump. Clean the seal water screen.

EF-40-17-01, $15^{\rm th}$ and Clay (new) Sanitary and Storm Cent. Downblast Exhaust Fan Quarterly PM

- 1. Check to ensure the belt sheaves are tight on the motor drive and fan shafts.
- 2. Check to ensure the belt is tight enough; it should only depress in 1/2 inch.
- 3. Check to ensure all the hardware is tight.
- 4. Grease the fan bearing with LC 65, hydrotex, or equal. The fan should be running when you put in the grease. Grease slowly until the grease comes out of the bearing seal.
- 5. The motor is lifetime lubricated from the factory.
- 6. Document any potential problems on the work order.
- 7. Clean the fan wheel.
- .8. Check the blade edges and side seals. Check the caulking around the roof seal; re-caulk if the seal is broke.
- 9. Clean up oil or grease on the equipment, dispose of oil or grease as per State and Local codes.
- 10. See the O&M manual in the library.

P-40-17-15, 16, 15th and Clay (new) Sanitary and Storm Hayward Gordon Pumps Semi-Annual PM

1. Change the oil in the pump housing using a high quality AW 68 or equal.

M-40-17-02, 15th and Clay (new) Sanitary and Storm Grit Removal System Monthly PM

- 1. Check the level limit switch to ensure it's working properly.
- 2. Check oil levels in the grit auger (use R&O630) fill as needed.
- 3. Check oil in the grit agitator drive (use R&O 630) fill as needed.

M-40-17-02, $15^{\rm th}$ and Clay (new) Sanitary and Storm Grit Removal System Quarterly PM

- 1. Check nozzle units.
- 2. Check the rollers and readjust as needed.
- 3. Clean the outside with a pressure washer.
- 4. Check to ensure the emergency stop button works.
- 5. Change oil in all flat gearboxes using a 630 oil.

M-40-17-02, 15th and Clay (new) Sanitary and Storm Grit Removal System Semi-Annual PM

- 1. Check to ensure the ball valves are working.
- 2. Check the pressure reducer.
- 3. Change the perma bearing lubricator for the unit bearings, red perma lubricators.
- 4. Remove and clean nozzles.
- 5. Grease the live ring stirrer with LC 65.

M-40-17-02, 15th and Clay (new) Sanitary and Storm Grit Removal System Annual PM

- 1. Change oil in the gearbox with Mobil Gear 630 or equal.
- 2. Check the electrical controls, tighten connections and remove any corrosion, document any potential problems.
- 3. Inspect all the mechanics for potential problems and report all problems.

M-40-17-02, 15th and Clay (new) Sanitary and Storm Grit Removal System Semi-Annual PM

- 1. Check the electrical areas for cleanliness.
- 2. Tighten all electrical connections.
- 3. Replace indicating lamps as needed.
- 4. Replace station lighting as needed.
- 5. Check and clean all contacts as needed.
- 6. Check all the switchgear for proper operation.
- 7. Check the wetwell and level controls and make repairs as needed.
- 8. Ensure that dispatch receives all the alarm codes that is sent from the covert system, verify by setting off alarms then make contact with dispatch.
- 9. Ensure blower, sump pump, dehumidifier, and the station air handlers are working properly.
- 10. Check all the building heaters and panel heaters.
- 11. A corrective work request must be written if problems are found, be sure to give a documented list to your Supervisor.

M-40-17-02, $15^{\rm th}$ and Clay (new) Sanitary and Storm Infilco Climber Screen Semi Annual PM

- 1. Grease the climber sprockets and pins with LC 65 or a #2 grease or equal. Always keep plenty of grease on the pins, roller climber rack.
- 2. Check the wiper edge, remove debris.

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$M\text{-}40\text{-}17\text{-}02,\,15^{\text{th}}$ and Clay (new) Sanitary and Storm Infilco Climber Screen Quarterly PM

- 1. Change the oil in the gear reducer drive with a high quality gear lube 85/140 or equal.
- 2. Check all electrical devices to ensure they are working properly.
- 3. Check the shocks and repair as needed on the wiper edge.
- 4. Clean around the area, removing debris and any oil or grease.
- 5. Change oil in the trash bin auger drive (snuggler) and grease auger drive bearing with LC 65 (bar screen press).

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 5-2 – SOPS COMBINED SEWER OVERFLOW MINIMIZATION AND WET WEATHER GUIDELINES

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GARY SANITARY DISTRICT

GARY, INDIANA

ADVANCED WASTEWATER TREATMENT PLANT

STANDARD OPERATING PROCEDURES

COMBINE SEWER OVERFLOW MINIMIZATION

AND

WET WEATHER GUIDELINES

INTRODUCTION
PROCESS OBJECTIVE
1
COLLECTION SYSTEM OVERFLOW LOCATIONS
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TREATMENT LEVEL PRIORITY
2
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INTRODUCTION

INTRODUCTION

The wastewater treatment plant wet weather operating strategy is to process all wet weather flows received up to the capacity limits of each unit process. However, equipment failure or extreme operating conditions may limit the ability to process all wet weather flows. It is, therefore imperative to develop guidelines and instructions for minimizing the duration and frequency of combined sewer overflow events. A discussion of the situations and guidelines for reducing combined sewer overflows are presented in this document.

PROCESS OBJECTIVES

- Maximize wet weather flow through each treatment plant unit process.
- Process all influent flow entering the facility using the normal sequence of unit processes.
- Maintain compliance with all NPDES permit parameters.
- Closely monitor, control and limit Combined Sewer Overflows from the NPDES permitted Combined Sewer Overflow Regulators.
- Avoid damage to upstream private and public property.
- Avoid damage to the treatment facility.
- Maximize collection system storage capacity by maintaining low interceptor and wet will levels.
- Monitor and prepare for forecasted wet weather events.
- Notify the public of when and where possible CSO may impact receiver streams

COLLECTION SYSTEM COMBINED SEWER OVERFLOW OUTFALL LOCATIONS

The collection system has twelve (12) NPDES permitted flow control regulators designed to provide hydraulic relief of combined sewage. The intent of the combined sewer overflow (CSO) locations is to provide a point of hydraulic relief to prevent flooding within the collection system and potential long term facility damage during major power outages, planned shutdowns, equipment failures, and high flow events due to wet weather. A schematic process flow diagram identifying combined sewer overflow locations, and discharge points are presented in Figure 1.

TREATMENT LEVEL PRIORITY

Currently there are no permitted overflow points within the treatment plant. The current facility design allows for influent flows up to 120 MGD to receive tertiary treatment. Peak flows in excess of 120 MGD have been processed through secondary treatment followed by disinfection during the period of April 1st through October 31st. To avoid damage to the treatment plant, excess flow beyond the plant design capacity must be overflowed at twelve (12) NPDES permitted combined sewer overflow control regulators located throughout the collection system.

Seven (7) of the regulators have remotely control flow control gates and the remaining five (5) have a fixed weirs to control overflows. If overflow at a combined sewer regulator(s) fails to provide sufficient hydraulic relief to the treatment plant it may be necessary to throttle the main influent sluice gate at the treatment plant to avoid flooding of the Raw Sewage Pumping Station (Headworks).

If it becomes necessary to initiate a combined sewer overflow at the regulator locations, the following procedures are to be followed.

Prior to initiating a combined sewer overflow the following criteria must have been met:

- Every effort must be made to place online all available treatment plant raw sewage pumps in a timely manner.
- Maintaining the main interceptor level at 8.0 ft or less to avoid flooding of the Raw Sewage Pump Station.
- The plant influent flow has been taken to a flow rate of at least 120 MGD providing all
 the necessary equipment and process tankage is available.

When the above criteria have been met and the level in the main interceptor cannot be maintained at 8.0 ft or less, reducing flow to the treatment plant must take place by partially closing the NPDES permitted Combined Sewer Regulator gate(s) at one of the seven (7) specified combined sewer overflow regulators within the collection system.

The following guidelines must be utilized to maximize storage within the collection system and to minimize combined sewage overflows at the regulator outfalls:

• Initiate the remote closing of the flow control gates at the Colfax Street and or the Chase Street NPDES permitted CSO regulators. These two (2) combined sewer regulators are the closest to the treatment plant and are to be monitored frequently. These flow control gates are to be closed gradually in 5% -10% increments as the needs of the facility and effluent quality dictate.

When the gates at the Colfax Street and Chase Street regulators have been closed completely, and influent flow continues to excess the treatment plant capacity, initiate the closing of the remaining regulators gates in the following order; Bridge Street, Peirce Street, Polk Street, Alley 9 East, and Rhode Island Street, as needed to maintain an interceptor level of 8.0 ft. or less at the facility. Once the interceptor level stabilizes at 8 feet, and flow through the treatment plant has been maximized initiate the opening of the regulators gates in 5% - 10 % increments in reverse order until all regulator gates are 100% open.

PROCEDURES FOR OVERFLOW AVOIDANCE & MINIMIZATION

Under normal operating conditions, all flow will be accepted at the treatment plant and processed routinely and without problem. However, under conditions of high flows, failure of equipment or

limited treatment capacity due to process tankage offline for maintenance and or repair, plant operators will implement procedural methods that will reduce the risk that a wet weather overflow will be necessary. Accordingly, an operational strategy for reducing the likelihood for overflows involves the following:

Reducing flow bottlenecks.

Temporarily altering operational conditions to maximize flow through available equipment.

 Making adjustments to plant flow conditions in gradual increments to lesson the impact on influent pump operation.

Preparation for wet weather operational conditions should be started early because flows can quickly increase with little time for reaction. This is particularly true during periods of intense rain or after periods of prolonged rain when the ground has become saturated and there is increased potential for inflow, infiltration and surface runoff into the collection system sewers. Flows can increase dramatically even at non-peak periods.

Wet weather preparation includes the following:

- When weather forecasts indicate a strong potential for rains, high flow conditions should be anticipated.
- Anticipate rapid need to place all the screening equipment in manual in the event of a rapid flow increase.
- Increase frequency of operator rounds to check for obstructions and proper function of all process equipment.
- Placing all available raw sewage pump(s) on line to reduce the wet well levels which will
 allow additional storage in the collection system. In addition, the operator will be assured
 that all available pump(s) are operational and primed.
- Defer, if possible, non-essential maintenance that would require disabling the standby equipment to an alternate time or schedule the work to be started and completed during the plant low flow period.

The following table illustrates the operating status of most major equipment during wet weather events:

	NORMAL OPERATING MODE V Flow control gates at the regulators	Closed as needed to control plant interceptor level of 8.0 ft. or less
	Main influent gate	Closed as needed to maintain a Raw Sewage Pump Station wet well of 8.0 ft. or less
The following table illustrate	Headwork's	Trash Rake, Bar Screens, Detritus tanks in continuous operation. All available Raw Sewage Pumps placed online as needed to pump in excess of 120 MGD

operating status of most major equipment during normal flow periods:

NORMAL OPERATING MODES	
Flow control gates at regulators Plant influent gate	Normally open 100%. Normally open 100 %.
Main influent gate	Normally open 100 %
Main Influent interceptor	Normally 6.0 to 6.5 ft.
Plant Raw Pump Wet well	The normal operating range is 3.0 to 4.0 ft.
Headwork's	Trash Rack –automatic mode, Four (4) Bar Screens – automatic mode, Two (2) Detritus Tanks and associated Pumps, Cyclones and Classifiers – automatic mode, Seven (7) Raw Sewage Pumps-automatic mode.

Regulator

The Gary Sanitary District is required to manage, operate, and maintain the combined sewer flow control valves: system as outlined in the consent decree and the NPDES Permit. GSD must take a proactive management approach to the combined sewer system to meet the intent of Federal and State mandates. There is a total of twelve (12) flow control regulators, which are utilized to control the

There are 7 flow control regulator points in the system which have sluice gates and outfalls located at various locations on the Grand Calumet River. The remaining 5 regulators are simple weir-types located on the Little Calumet River. The following is the location of the regulators, which have the flow control gates:

- Colfax
- Chase
- Bridge
- Pierce
- Polk
- Alley 9
- Rhode Island

The following is the location of the fixed weir overflow location

- 32nd and Alley 1 East Diversion Structure
- 32nd and Broadway Diversion Structure
- 25th and Wisconsin Diversion Structure
- 25th and Georgia Diversion Structure
- Elkhart St. Diversion Structure

Plant operations and maintenance is responsible for the task of monitoring, operating, and insuring that the critical control equipment and structures are maintained. Operations is also responsible for the reporting of all overflows from the regulators.

2. Wastewater Treatments Plant Main Influent Gate:

This gate is used to restrict flow to the headworks wet well during high flow events after the regulators have been closed and / or the flow to the Plant has exceeded 120 MGD.

- The main influent gate ideally is to only be utilized after all the regulator gates have been closed 100%. The main gate is to be throttled as needed to maintain an interceptor level
- The current guidelines required by EPA and IDEM mandate that the plant takes a flow rate of at least 120 MGD, and that the influent gate only be restricted to prevent flooding of the treatment plant Headworks.

 The interceptor levels must be monitored closely and additional pumps put on line in a timely manner to reduce the potential for overflows at the regulators and to avoid washout of solids in the primary and secondary clarifiers

3. Plant Drain:

There is no method to monitor the plant drain level due to the current plant design. It should be anticipated that as the interceptor level increases that there is also restriction within the plant drain system. During high flow events the following action should be considered to increase flow to the plant and reduce overflows.

- A determination will need to be made as to the solids inventory for the plant; if possible, operations manager may consider shutting down the dewatering building to reduce the plant recycle load.
- If applicable, discontinue contractor dewatering activities and the draining of tank for maintenance activities where flows are being introduced into the plant drain system.

4. Headwork's:

The following actions should be taken when there is any indication of an increase in flow due to a wet weather event and / or if the flow exceeds 60MGD.

- The trash rack should be checked and place in the hand mode to prevent potential bottleneck at the influent area of the plant.
- All Bar Screens should be placed in service in hand operation.
- Detritus Tanks should be placed in hand operation.
- High flows should be anticipated, be prepared for the need to online additional equipment quickly.

5. Raw Sewage Pump Station:

Anticipate placing additional raw sewage pumps on line in a timely manner to stay ahead of flow increases.

- The operator's round for plant inspection needs to be increased to every hour when wet weather events are anticipated. The operator will need to check the following:
- · Interceptor levels
- · Wet well levels
- The condition of the raw sewage pumps and support system
- · Hydraulic accumulator, compressors and control systems to insure proper operation
- Seal water system, day tank level and pressure gauges
- · Vacuum priming system, retention tank, and control system, the retention tank must

remain empty, drain any water that has accumulated.

OVERFLOW PREPAREDNESS

Plant operations personnel must be immediately available, and continuously aware of plant operational conditions, and ready to implement appropriate responsive actions, which have been thought out, planned for and practiced in advance. Should a situation arise where overflowing a regulator is unavoidable, operator control over plant flows and pumping must be closely monitored to minimize the volume of the combined sewer overflow. Always visually verify all combined sewer overflows in a timely manner. Improvements to the SCADA system allow operations to know when overflows have started and stopped at the regulators, however visual check must be made to insure the accuracy of the flow and level indicators.

If a problem is noted operations will also need to insure work orders are written for repairs, and that maintenance responds in a timely manner. Plant Maintenance will be responsible to insure that the monitoring system instrumentation is on a program of routine calibration to assure the validity of indicated values and to enhance operator confidence.

1. Operator Presence

It will always be necessary that plant operators perform routine inspections of equipment and support systems. Proper knowledge of operating parameters for equipment and frequent checks of performance of field instruments is one of the most important responsibilities of the plant operator. In addition, routine observations by plant operators helps to identify deteriorating trends in performance so that corrective actions can be implemented well before the development of an alarm condition that could require immediate and dramatic actions to resolve.

- Maintain continuous operator presence in the pumping/screening area to provide for immediate emergency response.
- Close monitoring of the return sludge rate and clarifier performance will provide indications of process integrity as secondary flows increase.

2. Preparedness Documentation

- Operating conditions are observed every two hours and recorded on the plant log.
- The Operator will inspect the plant systems and record status in the area logbook.
- Report equipment deficiencies to the Shift Supervisor and note in the logbook. Have work requests entered for items requiring maintenance.

3. Routine Instrument Calibration

Critical instrumentation must be checked regularly and placed on a formal calibration program. This is to assure accurate representation of field conditions which can not be easily or directly

observed by plant operators.

NOTIFICATION RESPONSIBILITIES WET WEATHER NOTIFICATION

The NPDES permit and EPA guidelines require notification for overflow events at the CSO regulators and when the main influent gate has been throttled at the treatment plant. This notification is to be done within 24 hours of the overflow events and follow up written notification within 5 days is also required. Further, notifications may be also required by the Operations Manager and the Project Manager to provide for clear internal communication. The plant Shift Supervisor is responsible for initiating preliminary verbal notifications and making follow up calls to confirm and revise information to IDEM and EPA The following is the guidelines for normal communications by the Shift Supervisor:

- Howard Duckman of EPA must be notified of the circumstances requiring the seal to be broken. He can be reached at (312) 886-6716 24hrs a day if he is not available, this line has voice mail. The following information is required when notification is given:
 - Date
 - · Time
 - Flow
 - · Security seal number
- Steve Judith of IDEM must also be informed when it becomes necessary to break the security seal and the same information given. He can be reached at (317) 232-8409.
- Overflow Incident Report.

The Shift Supervisor will complete the "Overflow Incident Report". The form will be initiated at the onset of the incident and completed when the overflow is over. The completed form will be faxed to IDEM, Office of Emergency Response at (317) 233-7145.

Dry Weather Overflow

Dry weather overflows must be reported immediately to the Operations Manager. Dry weather bypasses must be reported to IDEM and EPA as soon as possible by one of the above.

The Shift Supervisor will also note on the Daily Process/Exception Report each time that a plant overflow incident takes place.

GSD Contact Lists:

Immediate contact of the Operations Managers as indicated is required. The following list is

provided for reference of others that may require notification:

- · Technical Services Manager
- · Project Manager
- · Outside Agencies Contact Lists:
 - EPA -
 - IDEM -

Overflow Incident Investigation and Report

Each time a plant overflow event occurs a complete investigation shall be conducted and a written summary prepared for review by the Operations Manager. The Shift Supervisor will prepare the preliminary summary. The Operations Managers will conduct a final investigation, if necessary, for further refinement. The summary shall be submitted to the Operations Manager within 24 hours and the Operations Manager will be responsible to prepare final report to be submitted to the Project Manager. It is essential that the Shift Supervisor conduct a timely initial investigation of the events leading to and surrounding overflow events. The investigation is conducted to determine exactly what happened and what actions can be taken in the future to prevent or minimize the overflow volume. The investigation, therefore, provides the basis for a learning opportunity to improve the performance of plant facilities and effectiveness of staff teamwork. Essentials of the investigation are as follows:

- Obtain statements from all operators on duty and involved in the incident statements to
 include descriptions of significant events and their sequence of occurrence.
- Conduct a debriefing; with involved operating staff to clarify events and resolve any discrepancies (hold the shift over is necessary).

Information determined during the course of the investigation is to be written in a formal written report. The report provides the Operations Managers with vital information for assessing equipment reliability and priority of support by maintenance, training and engineering groups.

The report is to include the following:

- Summary
- Description of the event
- Significance with respect to NPDES permit compliance
- Statement of findings.
- Conclusions as to what happened and why.
- · Identification of extenuating or contributing factors.
- Recommendations of how to prevent future occurrences.
- A copy of all supporting charts records and logs.
- Listing of personnel on duty and assigned posts.

Operating records, logs and reports provide an important source of information when conducting investigations to identify causes of operational and mechanical problems. Accordingly, to provide more complete data and records on plant overflow events, a complete investigation should be conducted and report filed as a standard procedure whenever there is a equipment failure or overflow event. The investigation would include compilation of all relevant documentation and interviews with involved parties, preferable immediately following the incident. Important documents consist of log book entries, data logs, charts for plant flows and levels, and written statements. The formal report should contain an incident description identifying occurrences, conditions and sequence of events; identification of actual or probable causes and contributing circumstances; statements of findings; conclusions; recommendations of how to prevent recurrence and specific mitigating actions with responsible parties identified.

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 5-3 – RAW SEWAGE PUMP AND REGULATOR GATE SOP



RAW SEWAGE PUMP AND REGULATOR GATE SOP

- 1. There are seven raw sewage pumps with a total capacity of 220 MGD and firm capacity of 180 MGD. The C-40 is constant speed, A-40 is variable speed, B-40 is variable speed, 1-30 is constant speed, 3-30 is constant speed, 4-20 is constant speed and 5-20 is constant speed.
- 2. Normally the A-40 or B-40 pumps are in operation, to maintain wet well levels between 3.0-3.5 ft and an interceptor level of about 7.0-8.0 ft. Either can be operated in auto mode but not both at the same time, both have setpoint limits (Hz). The B-40 minimum is 48Hz and the maximum is 55Hz. The A-40 minimum is 48Hz and the maximum is 60Hz.
- 3. Consider the east and west wet well levels, interceptor level and pump percentage, to determine the utilization of more or fewer pumps.
- 4. Depending on the amount of rainfall present or expected you would add an additional pump to maintain the well and interceptor levels noted above.

Regulators that can be opened/closed remote/ manually from the SCADA system are:

Colfax Street, Chase Street, Bridge Street, Pierce Street, Polk Street, Alley 9 East, and Rhode Island

- 1. Do not close regulators at the first sight of rain. Remember our number one concern is the integrity of the plant and the protection of the receiving stream. Monitor weather services and use good judgment. Under no circumstances are regulator gates to be closed during dry weather conditions.
- 2. In case of severe rain and after you have reached a peak flow of 120 MGD and levels are on a steady incline, start closing the regulator gates closest to the Plant (Colfax and Chase). Work towards closing all other regulators needed to maintain a quality final effluent and protect the treatment facility.
- 3. If you have closed all regulators 100%, and have reached and exceeded your maximum pumping capacity and still not able to maintain the quality of the Plant's final effluent, you may throttle either of the Plants influent gates (east is preferred) and throttle the influent flow to maintain a flow of 120 MGD or greater without



RAW SEWAGE PUMP AND REGULATOR GATE SOP

compromising the integrity of the final effluent.

- 4. While the regulator gates are closed, we are required to maintain the Plant's design flow of 120 MGD unless otherwise stated to preserve the integrity of the plant.
- 5. It is mandatory that all CSO's be visually inspected and recorded as actual overflows.
- 6. To restore normal operations, gradually reopen the plants influent gate till it is 100% open.
- 7. Start opening the Chase & Colfax regulators by 5 to 10% intervals until they are 100% open.
- 8. Proceed to open the other regulators in order of their physical relationship to the Plant in an eastern direction. (Bridge, Pierce, Polk, Alley 9, Rhode Island) till they are 100% open.
- 9. To change regulator gate desired position (open/close) highlight the right set of numbers using the mouse, enter the desired open/close position using the keyboard and push 'enter'. The left side will indicate the actual percentage open.

When it is necessary to isolate a raw sewage pump, reference the Hazard Energy Control Procedures (HEPC) SOP.

Gary Sanitary District

Report Submittal: 5/18/2018

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Combined Sewer Overflow Operational Plan

APPENDIX 6 – CRITICAL SPARE PARTS LIST	

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
EL0105004	BALLAST FOR F96T12 LAMP FOR LIFT STATION PART NO 6X923		EL	2.0000	\$39.78	1.0000
EL0105300	PHOTOCONTROL SWIVELS FOR LIFT STATIONS PART NO 6P008		EL	8.0000	\$16.14	1.0000
EL0503310	CONNECTOR CORD GRIP NYLON MALE 1/2 .3755 STRAIN RELIEF STRAIGHT SHC1023CR FOR PUMP ROOM RAW SEWAGE PUMP	88148290	EL	0.0000	\$4.39	0.0000 C
EL0503365	RECEPTACLE MALE 5 POLE PLUG END STAIGHT WIRE 16AWG 12IN LENGTH 12IN 600AC 600DC AMPS AC 8 FOR PUMP ROOM RAW SEWAGE PUMP		EL	12.0000	\$15.38	5.0000
EL0503366	CORD SET SINGLE END FEMALE PLUG END 90 DEGREE WIRE SIZE 16AWG 6FT LENGTH 600AC 600DC AMPS AC8 FOR PUMP ROOM RAW SEWAGE PUMP		EL	14.0000	\$31.36	5.0000
EL0604013	FUSE FNQ3 4XC52	FNQ 3	EL	11.0000	\$13.00	3.0000
EL0604309	FUSE, BUSSMAN 400 AMP 250 VOLTS (TENNESSEE LIFT STATION)	4XH77	EL	0.0000	\$83.67	0.0000 C
EL0604314	FUSE 4AMP TIME DELAY LPS RK 4SP FOR AERATION TANK AIR CONTROL VALVES 1CL69	LPSK4 SP	EL	12.0000	\$13.39	6.0000
EL0604315	FUSE CUTLER HAMMER 5ACLS 6 R FOR 5 20 AND 4 20	4ACLS 6	EL	4.0000	\$635.00	3.0000
EL0605028	FUSE 250 FRSR-20	FRSR-20	EL	4.0000	\$9.44	2.0000 C
EL0605352	FUSE FNM 3-2/10 FOR BELT PRESS PART NO FNM3-2/10		EL	7.0000	\$4.15	5.0000
EL0605353	FUSE MIDGET 3A FOR BELT PRESS1 TO 4 FILTER CONTORL PANELS KLDR3 PART NO 4XC22		EL	16.0000	\$10.04	4.0000
EL0605354	FUSE 2A GLASS FOR RAW PUP CONTROL PANELS GMA2 PK OF 5 PART NO 6F101		EL	10.0000	\$5.47	1.0000
EL0605635	FUSE LPS-RK-70	LPS-RK-70	EL	0.0000	\$28.80	2.0000 C
EL0611300	FUSE BUSSMANN JJS800 FOR 27TH AND CHASE PUMP	JJS800	EL	4.0000	\$338.00	3.0000
EL0701023	CAPACITOR PART NO 7C100M40RA FOR 27TH AND CHASE 15TH AND CLAY		EL	12.0000	\$18.56	8.0000
EL0701302	TRANSFORMER EATON MP3000 FOR RAW SEWAGE PUMP 520 C40		EL	1.0000	\$2,628.65	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
EL0701303	RESISITOR W TERMINALS 15K OOHM2 W 10 PER PACK 2MEW2		EL	5.0000	\$1.50	1.0000
EL0702119	CIRCUIT BREAKER SQ D MOLDED CASE 600V 20 A GB PART NO 88240073 FOR CONTROL HOUSE		EL	1.0000	\$563.11	1.0000
EL0702306	CIRCUIT BREAKER 30AMP 3 POLE SQUARE D MODEL ED834030 FOR NORTH PRIMARY GALLERY CAT NO 3TW40		EL	2.0000	\$335.57	1.0000
EL0707300	HEATER OVERLOAD #CR123F	CR123F	EL	3.0000	\$8.85	0.0000 C
EL0709009	MOTOR FRAME 3 PHASE 1.5 HP 145TC DAYTON	4LW89	EL	0.0000	\$348.97	0.0000 B
EL0709010	MOTOR LESSON 50HZ 3 PH 1HP 1425 RPM 220/380 FOR DIGESTER CONTROL HOUSE PART NO 4GUT8		EL	2.0000	\$197.21	1.0000
EL0709013	MOTOR 7-1/2HP 1200RPMFRAME 254TC FOR SCUM PUMP IN PRIMARY TANK		EL	2.0000	\$1,400.00	1.0000
EL0709029	MOTOR FOR BARSCREEN PUMP & BLOWER BLDG PART NO 6298H06		EL	2.0000	\$6,070.35	1.0000
EL0709031	MOTOR BLADOR RPM 1800 VM3538 TEFC 230/460 FRAME 56C		EL	2.0000	\$244.86	1.0000
EL0709032	MOTOR WATSON MARLOW SPX 25 REPLACEMENT RELIANCE 2 HP FRAME 145TC 230/460 VAC 3 PHASE 60HZ VEM3558T		EL	1.0000	\$998.40	1.0000
EL0709077	MORTOR BALDOR VENCP83581T-4 1 HP 1765RPM 3PH 60HZ 143TC FRAME ITEM NO 03932460		EL	2.0000	\$731.32	1.0000
EL0709079	MOTOR INDUSTRIAL BALDOR 3/4 HP FRAME 56C PART NO 3N688	VM 3542	EL	2.0000	\$276.30	1.0000 B
EL0709090	MOTOR EMERSON CAT NO D7P2B MODEL R341 1760RPM 7-1/2 HP 213T FRAME TYPE DE J12 R341 M FOR VACUUM SYSTEM		EL	2.0000	\$494.49	1.0000
EL0709091	MOTOR ELECTRIC BALDOR VSWDM3558T 2HP 145TC 230 460 3 60 SS 300 SERIES		EL	0.0000	\$538.63	1.0000
EL0709092	MOTOR ELECTRIC BALDOR VSWDM3546T 1 HP 145TC 230 460 3 60 SS BODY TEFC		EL	2.0000	\$584.09	1.0000
EL0709093	MOTOR ELECTRIC BALDOR VM7037T 2HP 145TC 460 3 60 EXPLOSION PROOF		EL	1.0000	\$620.91	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
EL0709094	MOTOR DRE 80 M 4 FG DH 1HP 1740RPM 1P65 TEFC FOR WIESMAN		EL	2.0000	\$409.96	1.0000
EL0709308	MOTOR WESTINGHOUSE 325P165 B483 1/2HP RPM 1725 FRAME D48 #14009S	14009S	EL	0.0000	\$70.48	1.0000 C
EL0709311	MOTOR STARTER W/ OVERLOAD BLK CL8536 #630874HJ 5HP MAX TYTPE SBO 2V06 SERIES A	630874HJ	EL	1.0000	\$169.75	1.0000 B
EL0709319	MOTOR RELIANT DUTY MASTER A/C HP 10 FRAME 215T VOLTS 230 460 RPM 1755 MODEL P21G0341P ID NO 467P210341G FOR PRIMARY CONTROL HOUSE		EL	2.0000	\$1,540.00	0.0000
EL0709323	MOTOR FOR EAST RAS DRAINAGE 10HP 1765RPM FRAME 215T 230/460 3PH #5N315		EL	1.0000	\$423.36	1.0000
EL0709324	MOTOR GEAR BOX EURO DRIVE RPM 1720 PART NO KA77BR37DT90L4 KS FOR TRASH RAKE		EL	2.0000	\$2,922.50	1.0000
EL0709325	MOTOR BALDOR CM3157T EPACT 3PH 60HZ OPSB FRAME 145TC PART NO 01367704 FOR ACCUMLATOR		EL	2.0000	\$221.92	1.0000
EL0709326	MOTOR PUMP VICKERS VANE V20 1P 8P 1C 11 FOR ACCUMULATOR PART NO 00404506		EL	1.0000	\$300.91	1.0000
EL0709327	MOTOR WEG HP 10-3/4 FRAME 256T VOLTS 208 230 / 460 MODEL 0102X53E265T EXPLOSION PROOF FOR PLUNGER PUMP CONTROL CONTROL HOUSE 1		EL	0.0000	\$1,780.51	0.0000
EL0709329	MOTOR FOR DEWATERING BLDG PART NO US MOTOR C225P2 C C 460V 1725 RPM FRAME 284TC 25 HP		EL	0.0000	\$1,816.18	0.0000
EL0709330	MOTOR FOR DEWATERING PART NO US MOTOR C230P2C C 460V 1725RPM FRAME 286TC 30 HP		EL	1.0000	\$1,844.79	0.0000
EL0709332	MOTOR RELIANCE 3PH ID HM42077 RPM 1180 VOLT 460 AMP 24 8 HP 20 FRAME 286T FOR SLUDGE PUMP DEWATERING		EL	0.0000	\$2,047.01	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
EL0709333	MOTOR HP 1 RPM 1755 VOLT 460 AMP 60 FRAME 143TC ENC TEFC PH3 TYPE TFR MODEL FVE CAT NO U701 FOR POLYMER PUMP DEWATERING BLDG		EL	1.0000	\$269.34	0.0000
EL0709334	MOTOR NORD HELICAL GEAR 10 HP 1735 RPM FRAME 132M 3PHASE FOR SEEPEX		EL	2.0000	\$1,469.74	1.0000
EL0709336	MOTOTR ERUODRIVE GEAR REDUCER PART NO R87R57AM56 SO# 850112327.02 FOR PRIMARY TANK		EL	2.0000	\$2,380.08	1.0000
EL0709338	MOTOR 10HP 1765RPM 208-2 WEG MODEL T3ECT215-W22 RIGHT SIDE FOR EAST RAS	:	EL	2.0000	\$1,124.12	1.0000
EL0709339	MOTOR 10HP 1760RPM 208-230 460V MODEL 01018ET3CT21 5FT1-W2 LEFT SIDE FOR EAST RAS		EL	1.0000	\$1,074.22	1.0000
EL0709340	GEAR RED W/ MOTOR KA87DRE MAIN BELT DRIVE GSC 3805 FOR GBT -20-01-01 GRAVITY THICKNER BLDG		EL	2.0000	\$2,994.00	1.0000
EL0709341	GEAR RED /W MOTOR KA97R57 MAIN BELT DRIVE FOR BFP S -3934 DEWATERING BLDG BELT PRESS	ı	EL	1.0000	\$4,698.00	1.0000
EL0709342	GEAR REDUCER ERUODRIVER SMALL PART R57R37AM56-KS FOR PRIMARYCROSS FLIGHT		EL	1.0000	\$1,186.19	1.0000
EL0709343	APAPTER AM56 GEAR REDUCER FOR PRIMARY CROSSFLIGHT		EL	0.0000	\$.00	1.0000
EL0711313	CONTACT KIT PART NO 6-294 FOR EAST AND WEST PUMPS		EL	6.0000	\$380.00	1.0000
EL0711314	CONTACT KIT FOR BIG BERTHA PART NO 6-286		EL	6.0000	\$380.00	1.0000
EL0711315	CONTACT KIT CHMTR W22 2NO &2NC AUX FOR 27TH AND CHASE		EL	1.0000	\$539.13	1.0000
EL0712299	OVER LOAD RELAY FOR WATER CHAMP PART NO. 777-TS-FT-USF		EL	1.0000	\$446.00	1.0000
EL0712336	OVERLOAD RELAY THERMAL UNIT B 28.0 FOR SLUDGE SURGE TANK SUBMERSIBLE MIXER PART NO 1H619		EL	3.0000	\$20.52	3.0000
EL0712337	RELAY OVERLOAD AR27.0 FOR BLEND TANK PART NO 78590155610		EL	6.0000	\$15.62	2.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
EL0712340	RELAY SUBMEG SIMPLEX PART NO 14 500056 FOR PUMP AT LIFT STATION 34TH AND BURR		EL	1.0000	\$603.50	1.0000
EL0712344	SWITCH SELECTOR NORMALLY OPEN NORMALLY CLOSED 2 POSTION PART NO C-H10250T20KB 30.5 MM		EL	3.0000	\$98.36	1.0000
EL0712345	RELAY ALTERNATING CHNUM D852LA 120 VAC DPDT		EL	1.0000	\$240.35	1.0000
EL0712346	C-H D3PA3 D3 P3 SOCKET		EL	1.0000	\$.00	1.0000
EL0712350	RELAY PUMP CONTROLFOR 42TH AND JOHNSON PART NO WARR*16MK1A0**8 PIN CONTROL MODULE		EL	2.0000	\$254.67	1.0000
EL0712352	OVERLOAD RELAY PART ABB TA25DUS8.5 6-8.5A O/L RLY FOR DIGESTER TUNNEL AND SUMP PUMP		EL	5.0000	\$56.86	1.0000
EL0712353	OVERLOAD RELAY PART NO ABB TA25DU6.5 4.5 -6.5 FOR DIGESTER TUNNEL AND SUMP PUMP		EL	3.0000	\$56.48	1.0000
EL0712354	CONTACT KIT 3 POLE 600VAC 60A SQUARE D 9998SL4 FOR LIFT STATIONS		EL	3.0000	\$338.01	2.0000
EL0712355	RELAY SEAL LEAKAGE ON BLEND TANK FOR MIXER PART 14-40-71-13		EL	3.0000	\$585.66	1.0000
EL0713110	MERCOID TEMPERATURE SWITCH MODEL DAW7 033 153 5	DAW33-3-5	EL	0.0000	\$352.50	1.0000 B
EL0713111	SENSOR AC PART 6C055 FOR PRIMARY SCUM PUMP		EL	4.0000	\$91.71	2.0000 B
EL0713112	MERCOID LIQUID LEVELCONTROL SPDT MERCURY SWITCH 120V 4 WIRE B40	13-153	EL	0.0000	\$340.00	1.0000 B
EL0713113	MERCOID PRESSURE SWITH (DISCHARGE)	DAW-33-153-3A	EL	0.0000	\$235.00	1.0000
EL0713114	MERCOID PRESSURE SWITCH WITH DIAHPAGM SEAL FOR3 30 RAW SEWAGE PUMP PART NO DAW7033 153 1 SEAL MSAG0621Z 2 0 0		EL	0.0000	\$733.00	0.0000
EL0713115	ISOVERTER UNIVERSAL MODEL NO 4380 FOR DIGESTER FEED PUMP		EL	3.0000	\$194.75	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
EL0713116	TRANSMIITER 5 PSI SUBMERSIBLE LEVEL WITH 60 FT CABLE FOR HOBART AND BLAINE LIFT STATION PART NO PBLT2 5 60 PU		EL	3.0000	\$479.95	2.0000
EL0713200	SWITCH MICRO # LSJ1A	LSJ1A	EL	2.0000	\$143.00	0.0000 B
EL0713304	SWITCH PROXIMITY WITH CABLE FOR GBT OR KOMLINE BELT PRESS PART NO 90X0207 / 90K0306		EL	3.0000	\$130.00	2.0000
EL0713306	SWITCH PROXIMITY FOR BARSCREEN 56935H02		EL	4.0000	\$395.00	1.0000
EL0713319	SENSOR SWITCH E51SCL CUTLER HAMMER FOR ODS AIR DIAPHRAM PUMP		EL	1.0000	\$148.76	0.0000
EL0713320	SENSOR SWITCH E51DS1 CUTLER HAMMER FOR ODS AIR DIAPHRAM PUMP		EL	1.0000	\$85.38	0.0000
EL0713341	LIMIT SWITCH FOR TRASH RAKE PART NO 802T BP ALLEN BRADLEY		EL	2.0000	\$190.70	1.0000
EL0713342	SWITCH MANUAL SQAURE D 800VAC K + OPTIONSGB PART NO 88243813 FOR CONTROL HOUSE		EL	2.0000	\$96.14	1.0000
EL0714001	CONTACTOR A-16-30-10-84-ABB FOR TUNNEL SUMP PUMP		EL	0.0000	\$50.57	1.0000
EL0714010	RELAY SOLID STATE PART NO Z-W*16MB1A0**GP FOR 42TH AND JOHNSON LIFT STATION 11		EL	2.0000	\$250.00	1.0000
EL0714308	MOTOR STARTER WITH SOLID OVERLOAD RELAY NEMA SIZE 2 AMPC AC 45 120VAC HP RATING 3 PHASE FOR 27TH AND CALHOUN LIFT STATION PART NO 5F075		EL	2.0000	\$567.00	1.0000
EL0714309	MOTOR STARTER NON REV NEMA SZ 120 VAC TYPE OPEN 3 POLE 208 / 230 FOR SLUDGE SURGE TANK SUBMERSIBLE MIXER PART 1H513		EL	1.0000	\$312.53	1.0000
EL0716302	TRAMFORMER 110 12 110 24 CENTRAL VOLTAGE FOR LIFT STATION AND PLANT PART NO 4R824	902306	EL	5.0000	\$73.67	1.0000
EL0717300	ALARM HORN 120 VAC 60HZ FOR DIGESTER LEVELS		EL	4.0000	\$89.99	2.0000
EL0718100	CURRENT MONITOR FOR BLOWER 1 FILTER BLDG CMU 120		EL	4.0000	\$382.25	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
EL0719300	BOARD HW MINI MULTI 8 CH UNVIER AI PART NO 51452212 503 FOR PLANT CHART RECORDER		EL	2.0000	\$785.40	1.0000
EL0722001	GE LOAD TRACK MODULE PART NO DS3820LT4E / EX FOR BLOWERS 1-3 NORTH BLOWER BLD		EL	1.0000	\$15,525.00	1.0000
EL0805306	LAMP INCANDESCENT 6S6 6W 1 20V FOR GRIT CLASSIFIER PANEL PART NO 4RZU5		EL	20.0000	\$1.07	5.0000
EL0805307	LAMP 60 V 60MB FOR NORTH PRIMARY CONTROL PANELS PART NO 2F059		EL	40.0000	\$1.77	10.0000
EL0888001	SPEED CONTOLLER TORSPEC 5020TCP UP TO 30AMP OUTPUT FOR 4-20 RAW SEWAGE PUMP		EL	2.0000	\$2,273.00	1.0000
EL0902309	STROBE LOW PROFILE RED FOR CONTROL HOUSE PART NO 5WF91		EL	6.0000	\$77.67	2.0000
EL1010400	MOTOR CURRENT PROTECTOR PART NO CHDIS HMCP150T4		EL	2.0000	\$1,551.78	1.0000
EL1012034	BATTERY MODICON PART NO C10001/600515000 FOR FILTER BLDG PLC & BLOWER		EL	2.0000	\$77.00	1.0000
EL1012050	MOTOR BRUSH CARBON A-40 MAG DRIVE		EL	22.0000	\$8.50	6.0000 C
EL1012051	MOTOR BRUSH 420 #14-182521	14-182521	EL	32.0000	\$8.56	4.0000 C
EL1012053	MOTOR BRUSHES B-40	14-873711	EL	12.0000	\$10.00	4.0000 C
EL1012054	BRUSH HOLDER PART NO 840C505F01 FOR 5 20 AND 4 20		EL	2.0000	\$976.50	1.0000
FI0199308	FILTER PART NO M433 5 FOR FULLER GAS COMPRESSOR		FI	1.0000	\$75.52	2.0000
FI0199310	FILTER AIR ELEMENT 250028-034	250028-034	FI	4.0000	\$27.00	2.0000 C
FI0199350	FILTER HYDRAULIC 15TH & CLAY AND DBS DRIVES		FI	12.0000	\$9.81	2.0000 C
FI0299021	FILTER AIR COMPRESSOR 02250131-496		FI	4.0000	\$31.50	1.0000
FI0299022	FILTER OIL SPIN ON COMPRESSOR #250025-525	250025-525	FI	3.0000	\$55.70	2.0000
FI0299023	FILTER OIL # P3242 PUROLATOR NORTH BLOWER	'P32-42	FI	2.0000	\$28.00	1.0000 C
FI0299038	FILTER FOR 54TH AND TYLER PART NO F73G2ANQT3		FI	6.0000	\$51.75	1.0000
FI0299039	ELEMENT REPLACEMENT FOR 54TH AND TYLER PART NO 4438 03		FI	5.0000	\$9.58	2.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
FI0299301	FILTER AIR 3 PLY LINK 20 X 24 FOR RAPID HEATNG UNIT IN UPPER GRIT CLASSIFIERS PART NO 6B802		FI	9.0000	\$126.99	1.0000 C
F10299323	FILTER AIR 1/4IN W AUTO DRAIN #6395339 FOR GBT20-01-01 GRAVITY THICKNER BELT	6395339	FI	0.0000	\$114.00	1.0000
FI0299324	FILTER ELEMENT ONLY FOR KOMLINE PRESS PART NO 6395339		FI	6.0000	\$25.00	4.0000
GH0203302	SOCKET HEAD CAPSCREW 3/4 - 10 X 3IN FOR DIAPHRAM PUMP GRAVITY BLDG 2127-002		GH	5.0000	\$7.85	8.0000
GH0203350	STUD STAINLESS STEEL 5/8 -11 NC X 2 3/4IN FOR DIAPHRAM PUMP GRAVITY BLDG 2183 138		GH	16.0000	\$8.00	8.0000
GH0203411	CAPSCREW HEX HEAD METRIC STAINLESS M10 X 120 4 - 3/4 PART NO NSHCSSSM10120 FOR BARSCREEN		GH	96.0000	\$2.34	50.0000
GH0203413	CAPSCREW HEX HEAD STAINLESS M10 X 140 PART NO HCSSSM10140 FOR BARSCREEN AND PUMP ROOM		GH	100.0000	\$1.99	50.0000
GH0203500	BOLT HEX HEAD STAINLEE STEEL 5/16-18 X 2-1/4 PK OF 12 FOR KOMLINE PRESS PART NO 06J1107 12		GH	8.0000	\$9.00	4.0000
GH0203501	WASHER FLAT STAINLESS STEEL 5/16 FOR KOMLINE PRESS IN 24 PK PART NO 12J1003 24		GH	8.0000	\$3.00	4.0000
GH0204817	SCREW SOCKET SET USS KNURLED POINT 8-32 X 3/8		GH	0.0000	\$.21	0.0000
GH024020	DELETED HEX HEAD CAPSCREW ZINC 5/16 X 3 1/2		GH	0.0000	\$.41	0.0000 C
GH0508349	O RING VITON 13IN ID X 2 /32IN CROSS SECTION FOR CHEM FEED PUMP		GH	6.0000	\$25.76	3.0000
GH0508350	O RING VINTON 13IN X .108IN FOR CHEM FEED PUMP		GH	4.0000	\$15.75	1.0000
GH0607402	GASKET NEOPRENE FOR DIAPHRAGM PUMP CYLINDER SECTION 01A15005-01		GH	6.0000	\$12.00	4.0000
GH0607410	GASKET HYPALON FOR DIAPHRAGM PUMP 4E71A190		GH	0.0000	\$12.00	4.0000
GH0608300	UHMW PLASTIC WASHER 3 1/2 OD PER SAMPLE FOR SECONDARY TANKS		GH	29.0000	\$7.50	16.0000

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Stock Number	Description Par	rt No Commodity Code	Total OH	Item Cost	Order Item Point Class
GH0777001	WHITTET HI AN20 LOCKNUT FOR WEST RAS / NORTH PART NO 01705543	GH	1.0000	\$16.08	1.0000
GH0777002	WHITTET HI W20 LOCKWASHER FOR WEST RAS / NORTH PART NO 01705634	GH	2.0000	\$2.85	1.0000
GH0777003	WASHER TIMKEN K91528 KEYED TONGUED FOR WEST RAS / NORTH PART NO 00671932	GH	2.0000	\$28.22	1.0000
IN0199307	CHART PAPER HONEYWELL 0 TO 100 7 DAY PART NO BNC 24001661 001 FOR GARY AIR PORT LIFT STATION	IN	7.0000	\$15.23	1.0000
IN0299010	DELETED CARTRIDGE MEMBRANE 085 MEASURING #085G002	5G0022 IN	0.0000	\$.00	0.0000 C
IN0299209	SENSOR TS TEMP WITH 30M CABLE FOR REGULATORS	IN	0.0000	\$231.66	1.0000
IN0299210	TRANSDUCER XRS5 WITH 30M CABLE CEN CSA FM FOR REGULATOR	IN	1.0000	\$497.00	1.0000
IN0299212	POWER SUPPLY 24VDC AMP PART NP 2REH8 FOR GBT	IN	0.0000	\$86.03	1.0000
IN0299213	HYDRORANGER 200 WALL MOUNT AC PART NO 7ML10341AA11 FOR DEWATERING WELL	IN	1.0000	\$1,352.00	1.0000
IN0299214	TRANSDUCER STH WITH 10M CABLE ETFE WETTED 2IN NPT TAPER ANSI ASME B1.20.1 FM APPROVED CL I DIV I AREAS PART NO 7ML11000BA20	IN	2.0000	\$826.00	1.0000
IN0299218	PROGRAMMER SIEMENS MILLTRONICS OCMIII PART NO 7ML18302AA	IN	1.0000	\$128.00	1.0000
IN0299219	TRANSDUCER XPS-10 50M CABLE CSA CLASS 1 DIV1 PART NO 7ML11150FA40 FOR 27TH & CHASE	IN	3.0000	\$723.00	2.0000
IN0299221	TRANSDUCER FOR DETRITUS PART NO 154-0367-1500 4-20MADC	IN	2.0000	\$787.33	1.0000
IN0299222	CONTROLLER LEVEL WITH DISPLAY LUT420 PART NO 7ML50500AA21DA0 REPLACES HYRORANGER	IN	1.0000	\$1,039.00	1.0000
IN0299301	YSI REPLACEMENT DO ELECTRODE PROBE FOR AREATION TANK PORTALBE DO METER 13 298 63	IN	1.0000	\$177.64	1.0000

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Stock Number	Description	Part No Commodi Code	ity Total OH	Item Cost	Order Item Point Class
IN0299302	YSI PROBE RECONDITONING KIT FOR AREATION TANK PORTABLE DO METER 13 299 63	IN	2.0000	\$36.05	1.0000
IN0299303	YSI 5908 MEMBRANE KIT 1.25M FOR AREATION TANK PORTABLE DO METER 14 660 103	IN	1.0000	\$49.08	1.0000
IN0299305	LDO PROBE MODEL 2 PART NO 9020000 FOR AREATION METERS	IN	3.0000	\$1,192.73	1.0000
IN0299306	UNIVERSAL CONTROLLER SC100 PART NO LXV401.5200002 FOR AREATION DO METER	IN	3.0000	\$1,118.84	1.0000
IN0299307	SENSOR PHD SC DIFFERENTIAL PH DIGITAL FOR PH METER FOR AREATION PH METERS PART NO DPD1P1	IN	0.0000	\$588.13	1.0000
IN0299308	LDO PROBE PORTABLE UNIT WITH CABLE FOR PLANT USE PART NO LDO10105	IN	1.0000	\$597.60	1.0000
IN0299311	CAST IRON 2 PROBE FITTING PART NO 3E 2 A FOR DIGESTER CONTROL HOUSE	IN	2.0000	\$112.00	1.0000
IN0299312	INTRINSICALLY SAFE CONTROL PART NO 17A1X0 FOR DIGESTER CONTROL HOUSE	IN	2.0000	\$254.10	1.0000
IN0299315	MAIN CONTROL CARD PART NO AF300 P11 VFD CONTROL CARD FOR A40 B40 PUMPS	IN	1.0000	\$829.60	1.0000
IN0299316	MICROLOGIX 1200 ABS 1762 L40AWA	IN	2.0000	\$697.74	1.0000
IN0299317	CONTROLLER KEY PAD FOR FILTER BLDG SERVICE WATER PUMP	IN	2.0000	\$150.92	1.0000
IN0299318	OPTICAL ISOLATER MOORE ECT/ 4-20MA/2 X 4-20MA /117AC-TX(DIN)	IN	10.0000	\$416.67	1.0000
IN0299352	TRANSMITTER SUBMERSIBLE PRESSURE AMTEK MODEL 575 WITH 40FT CABLE FOR 29TH AND GRANT PART NO 575SB0006CL 40FT	IN	2.0000	\$862.60	1.0000
IN0399200	HONEYWELL MULITITREND SX RECORDER 16IN 6 4 TO 20 OUT FOR PRIMARY PROCESS PART NO TVMUSX 8800BA 000 22 2 030 0U0000 000	IN	1.0000	\$6,368.00	1.0000
IN0399300	DOPPLER FLOW METER WITH 50FT SENSOR CABLE AND DATA LOGGER	IN	1.0000	\$2,346.50	1.0000

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Stock Number	Description Pa	art No Commodity Code	Total OH	Item Cost	Order Item Point Class
IN0399301	SENSOR CABLE FOR DOPPLER PART NO 10117	IN	100.0000	\$1.50	50.0000
IN0399302	JUNCTION BOX FOR GREYLINE CABLE PART NO 10116	IN	2.0000	\$45.00	1.0000
IN0399303	SIEMENS INSTR WATCH GSM SOLAR BATTERY N4X AN PART NO TGX16347 440 FOR 15TH AND CLAY LIFT STATION	IN	2.0000	\$1,060.00	1.0000
IN0399304	TRANSMITTER INVENSYS FOXBORO D P MODEL IDP10 T22B21F M1L1 FOR VENTURI METER	IN	0.0000	\$1,468.85	1.0000
IN0399305	TRANSMITTER SUBMERSIBLE 15 PSI RANGE 60 FT CABLE PART NO PBLT2 15 60 PU FOR LIFT STATION	IN	6.0000	\$493.67	2.0000
IN0399306	CONTROLLER SIEMENS DUPLEX TRIPLEX MODEL LC150 FOR LIFT STATION 03 AND 16	IN	1.0000	\$3,515.50	1.0000
IN0399307	TRANSMITTER WITH HEAVY ORP ASSY PART NO 880 HO FOR DISINFECTION BLD	IN	0.0000	\$4,354.00	0.0000
IN0399310	PANEL VIEW OIT PART NO S385299 FOR KOMLINE BELT PRESS	IN	0.0000	\$3,324.00	0.0000
IN0399311	FAN VFD FOR BURR LIFT STATION PART NO AB 1336 FAN SP3A FAN STG FRAME E	IN	2.0000	\$1,300.65	1.0000
IN0399312	FAN COOLING VFD FOR 27TH AND CHASE NEW LIFT STATION PART NO CP01187	IN	1.0000	\$3,487.32	1.0000
IN0399313	DOOR MOUNTED FAN ASSEMBLY PART NO KP1212A KOOLTRONC 1310CFM FOR A40 B40 PUMPS	IN	5.0000	\$718.90	1.0000
IN0399314	DOOR MOUNTED FAN ASSEMBLY PART NO T FP101 HOFFMAN FOR A40 B40 PUMPS	IN	2.0000	\$340.00	1.0000
IN0399315	AC TECH M1 475C 7 5HP 480V 3 60 HZ FOR DIGESTER FEED PUMP	IN	1.0000	\$1,116.27	0.0000
IN0399316	FAN RECTIFIER FOR 27TH AND CHASE PART NO	IN	1.0000	\$645.00	1.0000
IN0399317	FAN FOR A40 PART NO FBA09A24H	IN	1.0000	\$30.00	1.0000
LB0199308	GREASE ROYAL PURPLE ULTRA P2 PERFORMANCE FOR BELT PRESS #P2-CS10 / BARSCREEN	2-CS10 LB	4.0000	\$38.60	0.0000 C

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
LB0199312	GREASE PERMA STAR 250CC BATTERY POWERED SINGLE LUBRICATOR FOR BARSCREEN TRASH RACK		LB	8.0000	\$94.87	4.0000
LB0299028	OIL T30 SYNTHETIC FOR RECIPROCATING COMPRESSOR		LB	2.0000	\$70.00	1.0000
LB0299311	MOBIL DTE 10 EXCEL 46 1/55 CMODTX1046		LB	145.0000	\$15.63	1.0000
LB0399012	GLYCOL 50/50 FROST FOR BOILERS		LB	220.0000	\$8.76	10.0000
LB0399313	GREASE SHC100 FOR VACON PART N 4ZF49		LB	11.0000	\$11.78	5.0000
LB0399329	COOLANT DETROIT DESIEL GENERATOR AT LIFT STATION 11 AND LIFT STATIOON 17 PART NO OWI 23512138		LB	14.0000	\$11.89	3.0000
LB0499300	OPR SOLUTION 32OZ W2T1278 FOR NEW DISINFECTION BLDG		LB	9.0000	\$11.42	12.0000
ME0101306	BEARING DODGE 3 7/16IN #P2B-SCM-307 DEWATERING	P2B-SCM-307	ME	0.0000	\$283.14	0.0000 B
ME0101308	BEARING PILLOW BLOCK ONLY 1- 15/16	RPB115-2	ME	0.0000	\$210.52	0.0000 B
ME0101309	BEARING 1-15/16 PILLOW BLOCK COMPLETE #SPB115C2 DEWATERING	SPB115C2	ME	2.0000	\$367.50	1.0000 B
ME0101310	BEARING TAKE UP 2IN #ZN6-2200 DEWATERING HEAD PULLEY	ZN6-2200	ME	0.0000	\$229.07	0.0000 B
ME0101311	BEARING PB KS 2-13/16IN OPEN USED FOR SECONDARY DRIVE ROLL AND PRIMARY DRIVE ROLL PART NO Z37A2041 DEWATERING BELT PRESSES		ME	0.0000	\$637.00	2.0000
ME0101312	BEARING PB KS 2-13/16IN CLOSED USED FOR DRIVE SIDE OF PRIMARY DRIVE ROLL AND PRESSURE DRUMS AND ROLLS AT DEWATERING PRESSES PART NO Z37A2042		ME	0.0000	\$657.00	2.0000
ME0101313	BEARING P B SPLIT 1-7/16 X 2-1/8SPL USED FOR WEDGE ROLL FOR DEWATERING PRESSES PART NO Z37A2017		ME	0.0000	\$377.00	2.0000
ME0101314	BEARING P B KS 2-11/16IN CLOSED EN USED FOR STEERING TAKE UP AND IDLER ROLLS FOR DEWATERING PRESSES PART NO Z37A2022		ME	0.0000	\$528.00	2.0000

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Stock Number	Description	Part No Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0101315	BEARING 1105 KRR FOR BOILER RECIRCULATION PUMP	ME	5.0000	\$82.88	2.0000
ME0101320	BEARING CAM FOLLOWER# NUTR40 INA	ME	2.0000	\$95.11	0.0000
ME0101321	BEARING 416821 3 G FOR DIGESTER MIXERS	ME	9.0000	\$8.91	2.0000
ME0101322	BEARING 416821 3 J FOR DIGESTER MIXER	ME	8.0000	\$30.55	2.0000
ME0101323	BEARING FOR DRIVE ROLLER ON DISINFECTION HYPOCHLORITE PUMP 6002RSJEM	ME	16.0000	\$20.12	8.0000
ME0101324	BEARING MAIN SHAFT DISINFECTION HYPOCHLORITE PUMP 6000VVC3	ME	10.0000	\$11.14	4.0000
ME0101325	BEARING PILLOW BLOCK SPLIT 1 7/16 FOR BELT PRESS NO 2 PART NO 37A2017	ME	4.0000	\$391.00	2.0000
ME0101326	BEARING PART NO NAA207 21KR FOR BOILER BLDG	ME	4.0000	\$45.20	0.0000
ME0101327	BEARING CUP TIMKEN 9321 FOR RAS CENTER PUMP	ME	2.0000	\$95.82	1.0000
ME0101328	BEARING CONE TIMKEN 9386H FOR RAS CENTER PUMP	ME	2.0000	\$296.84	1.0000
ME0101329	BEARING CUP TIMKEN JM822010 FOR RAS CENTER PUMP	ME	2.0000	\$40.70	1.0000
ME0101330	BEARING CONE TIMKEN JM822049 FOR RAS CENTER PUMP	ME	2.0000	\$107.59	1.0000
ME0101336	BEARING 6310 2RSNRJEM C3 PART NO 00057347 FOR MAIN GRINDER 19478	ME	2.0000	\$98.82	2.0000
ME0101337	BEARING ASSEMBLY LOWER FOR SCREW PUMP	ME	0.0000	\$3,329.00	1.0000
ME0101339	BEARING ROLLER INB PART NO 52 110 810 003 FOR 4 X 4 X 12	ME	2.0000	\$230.95	2.0000
ME0101340	BEARING BALL OTB PART NO 52 113 321 009 FOR 4 X X 12	ME	0.0000	\$242.07	1.0000
ME0101341	BEARING HOUSING RING PART NO CP 673 157 393	ME	2.0000	\$28.00	1.0000
ME0101343	BEARING JOURNAL PILLOW BLOCK 1-7/16 FOR PRIMARY TANK PART NO P2BBASO107	ME	0.0000	\$51.76	1.0000
ME0101346	FLANGE BEARING ID 2IN OD 2-1/4 L 3/4 FLG OD 2-1/2 FF 22 03-02 FOR BARSCREEN PART 00003937	· . ME	12.0000	\$1.97	8.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0101347	BEARING PART NO. PU-3998 FOR NASH PUMP AHC130		ME	3.0000	\$84.37	1.0000
ME0101348	BEARING PART NO. PU-4002 FOR NASH PUMP AHC130		ME	3.0000	\$131.03	1.0000
ME0101349	BEARING TIMKEN JHM522649 CONE FOR WEST RAS / NORTH PART NO 00661934		ME	1.0000	\$192.09	1.0000
ME0101350	BEARING TIMKEN JHM522610 CUP FOR WEST RAS / NORTH PART NO 00661932		ME	1.0000	\$105.16	1.0000
ME0101351	BEARING TIMKEN 98788 CUP FOR WEST RAS / NORTH PART NO 00660966		ME	1.0000	\$199.43	1.0000
ME0101352	BEARING TIMKEN 98400 CONE FOR WEST RAS / NORTH PART NO 00660963		ME	1.0000	\$320.76	1.0000
ME0101353	BEARING 6306 JEM FOR SEAL WATER PUMP PART NO 00056409		ME	2.0000	\$30.30	1.0000
ME0101354	BEARING FOR SCREW PUMP BS2-2217-RS/VT143 SPHERICAL BRG W/SEALS PART NO 07128242	07128242	ME	2.0000	\$358.59	1.0000
ME0101418	BEARING NTN #6018 MOYNO# AG02910 DEWATERING	6018	ME	3.0000	\$88.23	1.0000 C
ME0101425	BEARING THRUST MOYNO AE0301	AE0301	ME	0.0000	\$92.19	2.0000 C
ME0101426	BEARING ANG CONTACT WEMCO 4IN PART NO 100001		ME	0.0000	\$.00	1.0000
ME0101428	BEARING PILLOW BLOCK 3-1/2 LINK BELT PART NO EPB22456H TRASH RACK		ME	0.0000	\$.00	2.0000
ME0101500	BEARING PILLOW BLOCK SEALMASTER 1-15/16 DEWATERING #550213 RPB115 2	550213 RPB115-2	ME	0.0000	\$226.92	0.0000 B
ME0101504	BEARING HI MARTIN 2 7/16 #220 CHB2205MHI DAF	#220 CHB2205MHI	ME	0.0000	\$22.50	0.0000
ME0101505	BEARING HANGER MARTIN #12CH2205 DAF	12CH2205	ME	0.0000	\$44.95	0.0000
ME0101507	BEARING DODGE 2 7/16 DEWATERING	F4BLT7207	ME	0.0000	\$169.20	0.0000
ME0101510	BEARING DODGE 2 17/16 DEWATERING	P2BLT7207	ME	0.0000	\$189.29	0.0000
ME0101511	BEARING DODGE 2 15/16 #P2BLT7215 DAF BUILDING	P2BLT7215	ME	0.0000	\$297.41	0.0000
ME0101513	BEARING RADIAL NTN 6014 89-10 #AE0291 MOYNO	AE0291	ME	0.0000	\$34.51	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0101514	BEARING SEALED ERUODRIVE NSK6308VVC3 FOR BARSCREEN PART NO 00056876		ME	3.0000	\$57.33	1.0000
ME0101515	BEAING SEALED ERUODRIVE 6211VVC3 FOR BARSCREEN PART NO 00054287		ME	3.0000	\$75.78	1.0000
ME0102008	COUPLING SURE FLEX 4JE WOODS FOR POLYMER PUMP		ME	5.0000	\$4.34	3.0000
ME0102009	COUPLING SURE FLEX 3JE EPDM FOR PLOYMER		ME	6.0000	\$3.72	2.0000
ME0102011	COUPLING WOODS FLEX HYTREL SLEEVE FOR WEST RAS PUMP PART NO 11H		ME	3.0000	\$280.09	1.0000
ME0102012	COUPLING SURE FLEX 10JE PART NO 00513426		ME	3.0000	\$40.51	1.0000
ME0102014	BUSHING SDS 1-1/2 FOR FILTER BLDG SUMP PUMP LOWER		ME	2.0000	\$14.29	1.0000
ME0102025	COUPLING FLEX ELEMENT W FASTENER FOR A40 B40 PUMP ROOM PART NO 03073400		ME	2.0000	\$155.00	1.0000
ME0102026	COUPLING FALK 1120T 4IN BORE W/1 X 1/2IN KEY 2 SET SCREW FOR B 40		ME	0.0000	\$.00	1.0000
ME0102086	COUPLING HUB MAGNALOY 7/8 X 1/4 #M300 DEWATERING	M300	ME	0.0000	\$35.00	0.0000
ME0102309	BUSHING TAPER LOCK DODGE 2012X1 13/16IN		ME	0.0000	\$12.17	0.0000
ME0102336	HUB FLEX C 7/8 X 3/4 LOVEJOY PRIMARY		ME	2.0000	\$36.82	1.0000
ME0102337	HUB FLEX # C 7/8 X7/8 PRIMARY		ME	2.0000	\$36.82	1.0000
ME0102338	SLEEVE STANDARD #C7/8 PRIMARY		ME	4.0000	\$35.47	1.0000
ME0102339	COUPLING GEAR KIT LOVEJOY #C7/ACC	C7/8ACC	ME	0.0000	\$10.25	0.0000
ME0102344	BUSHING WOODS 5SC35 SEAL WATER PUMP		ME	2.0000	\$11.21	1.0000
ME0102355	BUSHING #HE-25 2-3/8 DEWATERING PRESS		ME	0.0000	\$27.27	0.0000
ME0102360	SPIDER FOR 27TH AND CHASE BARSCREEN PART NO 061573313		ME	5.0000	\$6.90	2.0000
ME0102361	COUPLING COMPLETE BORED FOR2ND STAGE EF SCREW PUMP		ME	2.0000	\$842.47	1.0000
ME0102363	SPIDER EURODRIVE 1657321 FOR PART NO 02593254		ME	7.0000	\$9.93	1.0000

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ME0102364	COUPLING MOTOR ERUODRIVE 0165747 X MOTOR COUPLING X 1-3/8 FOR PART NO 02843709		ME	3.0000	\$149.82	1.0000
ME0102365	SPIDER ERUODRIVE 1657321 FOR BARSCREEN PART NO 02593254		ME	0.0000	\$.00	1.0000
ME0102366	COUPLER ERUODRIVE 96AM213C FOR BARSCREEN PART NO 9999999		ME	6.0000	\$231.90	1.0000
ME0103313	EXPANSION JOINT 4 X 6 WITH RINGS PART NO RCFA221 NN FOR NORTH PRIMARY GALLERY		ME	4.0000	\$497.33	1.0000
ME0108014	PACKING GFO 9/16 IN		ME	66.0000	\$54.98	0.0000
ME0108636	SF 2-3/16 BUSHING QD		ME	2.0000	\$37.56	0.0000
ME0109007	DELETED SAME AS ME0109011		ME	0.0000	\$9.66	0.0000
ME0110190	BEARING FOR MUFFIN MONSTER IN GRAVITY BLDG # 30047 0003 / 6803		ME	5.0000	\$23.52	1.0000
ME0110191	SEAL BEARING GRAVITY BLDG 50047-0003 / 6310		ME	7.0000	\$38.45	1.0000
ME0110192	OIL SEAL 40337S FOR BARSCREEN PART NO 01299828		ME	12.0000	\$15.63	8.0000
ME0110316	SEAL MECHANICAL HAYWOOD GORDON 54099289		ME	4.0000	\$1,354.30	1.0000
ME0110320	SEAL MECHANICAL PS186 FOR BOLIER RECIRCULATOR PUMP		ME	1.0000	\$58.15	2.0000
ME0110323	SEAL MECHANICAL PS26 FOR POLYMER SYSTEM DEWATERING		ME	4.0000	\$117.50	1.0000
ME0110325	SEAL MECHANICAL PS290 FOR POLYMER SOLUTION PUMP PART NO 00641663		ME	0.0000	\$13.22	2.0000
ME0110353	SEAL OIL CR SERVICE MOYNO	CR42426	ME	0.0000	\$12.14	0.0000
ME0110355	SEAL OIL MOYNO	AG0611	ME	0.0000	\$15.38	0.0000
ME0110360	SEAL MECHANICAL 1-1/2 C CER V SS PER SAMPLE FOR SEAL WATER PUMP		ME	3.0000	\$65.00	2.0000
ME0110361	SEAL MECHANICAL 1-1/2 SC SC V SS PER SAMPLE FOR ABRASIVES		ME	2.0000	\$119.00	2.0000
ME0110362	OIL SEAL NATIONAL 415088 FOR WEST RAS / NORTH PART NO 01312877		ME	0.0000	\$18.79	1.0000
ME0110363	OIL SEAL CR 47475 FOR WEST RAS / NORTH PART NO 01315435		ME	1.0000	\$26.92	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0111303	SHEAVE 3 BELT 4.6X3B-SD PART NO 00700093	00700093	ME	2.0000	\$63.74	0.0000
ME0111309	SHEAVE 3V6 9 X2 SDS FOR FILTER BLDG SUMP PUMP LOWER		ME	2.0000	\$57.83	1.0000
ME0112025	SPROCKET SHEAR PIN STEEL H78 11T 1-3/4 IN B WLS TRIP PART NO 603 81853 184 FOR PRIMARY TANKS 9 AND 10 CROSS FLIGHTS		ME	2.0000	\$1,299.00	1.0000
ME0112026	SPROCKET SHEAR PIN STEEL H78 11 T 2 13 IN B W LS TRIP PART NO 603 81853 192 FOR PRI MARY TANKS		ME	1.0000	\$1,299.00	1.0000
ME0112030	SPROCKET 78 7T SOLID 1.44 IN B CAST BUSHED FOR CHAIN TIGHTENER ON PRIMARY TANKS 9 AND 10 PART NO 603 20443 80		ME	1.0000	\$275.00	1.0000
ME0113078	BELT TRI POWER BX 42 FOR PRIMARY TANKS 9 AND 10 PART 00719642		ME	5.0000	\$9.76	3.0000
ME0113313	BELT HI POWER # A59	A59	ME	4.0000	\$4.65	2.0000
ME0113343	BELT GATES 5VX1250	5VX1250	ME	0.0000	\$66.87	2.0000
ME0113354	BELT POLYCHAIN GT2 14MGT 2100 20		ME	3.0000	\$75.86	2.0000
ME0113355	BELT B34 FOR CHEM BLDG		ME	9.0000	\$6.32	2.0000
ME0113356	BELTTRUFLEX PART NO 2510 OR 4L510 FOR BOILER BLDG EXHAUST FAN		ME	2.0000	\$4.35	1.0000
ME0114307	COUNTER SHAFT WITH KEYS M2151200 FOR PLUNGER PUMP PE112 PART NO Z03C7001		ME	2.0000	\$246.00	1.0000
ME0115288	IMPELLER LOCK SCREW KIT FOR WEMCO 6IN PUMP PART NO 72951 K06R		ME	5.0000	\$241.02	2.0000
ME0115298	PUMP ABSMODEL AFP1040 1 M28 4W PUMP FOR LAKESHORE EAST		ME	0.0000	\$4,516.50	1.0000
ME0115315	BOTTOM SEAL ASSEMBLY FOR MUFFIN MONSTER IN GRAVITY BLDG 30053 TB3 D		ME	1.0000	\$480.00	1.0000
ME0115316	TOP ASSEMBLY GRAVITY BLDG 50053-TB1		ME	0.0000	\$694.33	1.0000
ME0115317	BOTTOM ASSEMBLY GRAVITY BLDG 50053-TB3		ME	0.0000	\$694.33	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0115318	PUMP ABS FOR DIGESTER TUNNEL MODEL XFP080C CB1.2PE20/6D EX 460 3 60VOLTS HP2.7		ME	1.0000	\$4,076.76	1.0000
ME0115319	FASTENER FOR BARSCREEN		ME	0.0000	\$334.00	0.0000
ME0115320	SUMP PUMP WITH DISCHARGE ADAPTER AND FLOAT PART NO FPSE3601A		ME	0.0000	\$367.00	1.0000
ME0115324	FLOAT EXT WGT W/60 FEET MERC -FREE PART NO GSE60NO		ME	0.0000	\$44.00	2.0000
ME0115326	FEEDER PULSA SERIES REPAIR KOPKIT FERRIS CHLORIDE SOLUTIONS PUMP-CHEMICAL BLDG	7660-5-AE	ME	2.0000	\$1,622.00	1.0000
ME0115327	ROTATING ASSEMBLY (COMPLETE FOR WEST RAS BUILDING)		ME	1.0000	\$19,250.00	0.0000
ME0115328	GEAR BOX	21-20062964H12.65	ME	0.0000	\$1,584.83	1.0000
ME0115329	IMPELLER FOR 6IN WEMCO PUMP PART NO 21172DR		ME	3.0000	\$4,176.12	1.0000
ME0115331	OIL RESERVIOR STAINLESS STEEL SSV105 976 SCUM PUMP		ME	2.0000	\$168.00	1.0000
ME0115332	OIL LEVEL MONITOR V800 488 SCUM PUMP		ME	2.0000	\$327.50	1.0000
ME0115333	HOSE ASSEMBLY V800481 SCUM PUMP		ME	2.0000	\$40.50	1.0000
ME0115334	GASKET TOP BOTTOM COVER 40014		ME	4.0000	\$13.94	2.0000
ME0115336	SEAL TOP FOR MAIN GRINDER IN GRAVITY BLDG PART NO 50053 TB1	50053-TB1	ME	1.0000	\$704.75	2.0000
ME0115337	SEAL BOTTOM FOR MAIN GRINDER IN GRAVITY BLDG PART NO 5003 TB3	5003-TB3	ME	3.0000	\$635.93	2.0000
ME0115338	COUPLING HALF 6S X 1 3/8 WITH 5/16 FOR MAIN GRINDER IN GRAVITY BLDG PART NO 50005 0002 001	50005-0002-001	ME	6.0000	\$29.40	3.0000
ME0115339	COUPLING SLEEVE 6H HYTREL FOR MAIN GRINDER IN GRAVITY BLDG PART NO 50005 0002 002	50005-0002-002	ME	5.0000	\$92.14	3.0000
ME0115340	COUPLING HALF 6S X 1 1/8 WITH 1/4 FOR MAIN GRINDER IN GRAVITY BLDG PART NO 50005 0002 003	50005-0002-003	ME	6.0000	\$29.40	3.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0115341	COUPLING FOR BOTTOM OF REDUCER ON MAIN GRINDER IN GRAVITY BLDG PART NO 50017 0001 001	50017-0001-001	ME	1.0000	\$222.57	2.0000
ME0115342	COUPLING FOR TOP OF MAIN GRINDER IN GRAVITY BLDG PART NO 500017 0001 003	500017-0001-003	ME	2.0000	\$222.57	1.0000
ME0115343	RETAINING RING FOR MAIN GRINDER IN GRAVITY BLDG PART NO 50108	50108	ME	2.0000	\$2.81	3.0000
ME0115344	RETAINING RING FOR MAIN GRINDER IN GRAVITY BLDG PART NO 50109	50109	ME	5.0000	\$5.00	2.0000
ME0115345	FLOAT SWITCH PART NO 3BY78 FOR GBT UNIT		ME	4.0000	\$36.00	2.0000
ME0115399	CONE CENTRIFUGAL PUMP		ME	0.0000	\$2,874.44	1.0000
ME0115402	O RING VOLUTE CASING #B506	B506-277	ME	0.0000	\$5.00	0.0000
ME0115407	WEAR LINER 4FT SECTION TYPE B UHMW PE PLASTIC 3/8IN THICKNESS SINTERED WITH AN ANTI WEAR FILLER AND SYNTHETIC LUBRICAT TO REDUCE FRICTION		ME	1.0000	\$411.35	4.0000
ME0115442	F TIP REPLACEMENT FOR EAST AND WEST CONVEYOR		ME	0.0000	\$43.81	0.0000
ME0115443	H TYPE TIP REPLACEMENT FOR EAST AND WEST CONVEYOR		ME	0.0000	\$99.38	0.0000
ME0115500	STATOR MOYNO C310HQ	C310HQ	ME	0.0000	\$1,386.21	0.0000
ME0115501	ROTOR MOYNO C71GH1 DEWATERING	C71GH1	ME	0.0000	\$3,351.81	0.0000
ME0115502	ROTOR SOLUTION POLYMER FEED PUMP #C81061	C81061	ME	0.0000	\$1,401.88	1.0000
ME0115503	ROTOR MOYNO C71FG1 DAF	C71FG1	ME	0.0000	\$1,433.04	0.0000
ME0115504	STATOR MOYNO C310GQ	C310GQ	ME	0.0000	\$516.10	0.0000
ME0115505	GEAR BALL MOYNO AG0951	AG0951	ME	0.0000	\$182.31	0.0000
ME0115506	ROTOR PIN SOLUTION POLYMER FEED PUMP #B0645S	B0645S	ME	0.0000	\$14.85	0.0000
ME0115507	GEAR JOINT KIT MOYNO KPF951	KPF951	ME	0.0000	\$1,225.00	0.0000
ME0115508	GEAR JOINT SHELL MOYNO PF0911	PF0911	ME	0.0000	\$187.57	0.0000
ME0115509	O RING GEAR JOINT SHELL MOYNO PF113Q	PF113Q	ME	0.0000	\$2.58	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0115511	STATOR SOLUTION POLYMER FEED # C5106F	C5106F	ME	0.0000	\$1,875.88	2.0000
ME0115515	SHAFT DRIVE MOYNO PUMP	TG0261	ME	0.0000	\$435.18	0.0000
ME0115521	GEAR BALL MOYNO	AE0951	ME	0.0000	\$110.21	0.0000
ME0115527	LOCKNUT MOYNO	RE0581	ME	0.0000	\$.51	1.0000
ME0115532	RING RETAINER BRG FOR POLYMER PUMP MOYNO	AE0082	ME	0.0000	\$2.06	0.0000
ME0115536	O RING KIT MOYNO BJ112Q	BJ112Q	ME	0.0000	\$3.09	0.0000
ME0115537	SEAL GEAR JOINT BOOT MOYNO GRSNT #AE0083	AE0083	ME	0.0000	\$947.10	0.0000
ME0115538	GASKET ADAPTER MOYNO BG085Q	BG085Q	ME	0.0000	\$8.76	0.0000
ME0115541	SEALING WASHER MARLOW RUBBER COATED INTERIOR		ME	0.0000	\$2.20	0.0000
ME0115543	BEARING SPACER MOYNO #PF0331	PF00331	ME	0.0000	\$45.76	0.0000
ME0115550	GASKET STATOR MOYNO LARGE BH085Q FOR DEWATERING	BH085Q	ME	0.0000	\$12.19	0.0000
ME0115552	RODS CONNECTING MOYNO #TE0251	TE0251	ME	0.0000	\$76.22	0.0000
ME0115553	STATOR MOYNO #C5104Q	C5104Q	ME	0.0000	\$181.28	0.0000
ME0115555	ROTOR #C71GH1	C71FGH1	ME	0.0000	\$3,511.78	1.0000
ME0115556	STATOR MOYNO #AF106584 /#P310H0	#AF106584/#P310H0	ME	0.0000	\$1,200.00	1.0000
ME0115559	VALVE NON RETURN PDB 3153129 4IN X 4IN NO SIDE OUTLET HOLES FOOR A C70 COMPRESSOR FULLER		ME	1.0000	\$2,500.00	1.0000
ME0115601	PIN CROSSHEAD MARLOW PLUNGER PUMP PE		ME	4.0000	\$61.00	2.0000
ME0115602	CROSSHEAD MARLOW PLUNGER PE		ME	4.0000	\$189.00	2.0000
ME0115603	GLAND MARLOW PLUNGER		ME	2.0000	\$219.00	1.0000
ME0115604	PACKING SET 9 MARLOW PLUNGER		ME	1.0000	\$93.00	1.0000
ME0115605	STUFFING BOX 9 MARLOW PLUNGER		ME	0.0000	\$972.00	0.0000
ME0115606	GASKET MARLOW PLUNGER PE-O-RING		ME	0.0000	\$29.30	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0115607	PLUNGER CONNECTING ROD ASSY 9 WITH BABBIT LINER SHIMS MARLOWM PART NO Z03E0219/0390302		ME	3.0000	\$1,068.00	2.0000
ME0115608	BUSHING MARLOW PLUNGER 9 CONN ROD		ME	12.0000	\$16.00	2.0000
ME0115609	GASKET GEAR CASE MARLOW PLUNGER 26201-00		ME	2.0000	\$31.00	1.0000
ME0115611	ECCENTRIC ASSY 9, MARLOW PUMP	1539400	ME	4.0000	\$334.75	2.0000
ME0115612	HANDLE L MARLOW PLUNGER 30770-00		ME	9.0000	\$21.00	1.0000
ME0115615	FLANGE DRIVEN 1509002	1509002	ME	5.0000	\$364.00	1.0000
ME0115623	REPAIR KIT FOR NASH PUMP AHC130 PART NO.PU-7828	15041-02	ME	3.0000	\$929.58	1.0000
ME0115624	CONNECTING ROD PART NO 03E0219 FOR PLUNGER		ME	0.0000	\$788.00	1.0000
ME0115625	LINER ECC BABBITT PART NO 0390302 FOR PLUNGER		ME	4.0000	\$357.00	1.0000
ME0115626	SHIM SET OF 2 FOR PLUNGER PART NO 63M0233 2		ME	10.0000	\$49.00	1.0000
ME0115627	VALVE SEAT FOR PLUNGER PUMP PART NO 36022 22		ME	3.0000	\$118.58	4.0000
ME0115628	VALVE SEAT GASKET FOR PLUNGER PUMP PART NO 36026 00 IN PK OF 4		ME	6.0000	\$36.30	4.0000
ME0115629	MACHINE SCREW IN PK OF 8 FOR PLUNGER PUMP PART NO 33216 00		ME	0.0000	\$18.15	4.0000
ME0115630	BUSHING BRASS 2INID X 2.75IN OD X 1/2IN WITH VITON O RING PUMP STUFFING BOX RESTRICTION FOR DIGESTOR RECIRCULATION PUMP		ME	1.0000	\$96.00	1.0000
ME0115631	SILICONE CARBIDE SEAT 2IN WITH O RING MOUNTED FOR DIGESTER RECIRCULATION PUMP		ME	1.0000	\$137.80	1.0000
ME0115632	SEAL MECHANICAL COMPLETE 2IN FOR DIGESTER RECIRCULATION PUMP		ME	1.0000	\$446.50	1.0000
ME0115633	BALL HARD URETHANE BLACK 5-1/8IN FOR PLUNGER PUMP		ME	0.0000	\$69.50	2.0000
ME0115634	DELETRED SAME AS ME0115627 SEAT CHK CLSP WITH GASKET AND SCREWS FOR PLUNGER PUMP		ME	0.0000	\$78.00	0.0000

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ME0115707 GEAR RING MOYNO #AG0952 AG0952 ME 0.0000 \$130.81 0.0000 ME0115708 COVER PLATE BEARING MOYNO #AE0341 ME 0.0000 \$8.24 0.0000 ME0115710 KIT PACKING GLAND MOYNO PKG GLD ME 0.0000 \$.00 1.0000 ME0115716 KIT CONNECTING ROD SOLUTION POLYMER FEED PUMP #K0625S ME 0.0000 \$170.11 0.0000 ME0115717 ROD CONNECTING SS MOYNO TE0257 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$7.73 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000	Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
MEO115633	ME0115635			ME	2.0000	\$17.00	2.0000
MED115638	ME0115636			ME	4.0000	\$61.00	2.0000
PLUNGER PUMP	ME0115637			ME	5.0000	\$9.00	2.0000
FOR PLUNGER PUMP ME	ME0115638			ME	2.0000	\$297.00	1.0000
MEO115699 ROUND MOTOR COMPLETE ASSEMBLY PERLESS FOR SERVICE WATER PUMP PART NO PEERLESS FOR SERVICE WATER PUMP PART NO PEERLESS G830A ME 1,0000 \$5,352.00 1,0000 MEO115701 SEAL WATER ITT AC SERVICE WATER PUMP PART NO REPRESS G830A ME 1,0000 \$114.48 2,0000 MEO115701 SEAL WATER WATER WATER ME 1,0000 \$10000 1,0000 MEO115702 DELETED PUMP SEAL WATER ME 1,0000 \$0.0000 MEO115702 DELETED PUMP SEAL WATER ME 1,0000 \$9.52 1,0000 MEO115704 GASKET MOYNO 15IN # RS4156-1 RS4156-1 ME 1,0000 \$9.52 1,0000 MEO115705 RING RETAINING MOYNO #AE0085 AE0085 ME 2,0000 \$5.64 1,0000 MEO115707 GEAR RING MOYNO #AE0085 AE0085 ME 2,0000 \$130.81 0,0000 MEO115707 GEAR RING MOYNO #AE0085 AE0085 ME 2,0000 \$130.81 0,0000 MEO115708 COVER PLATE BEARING MOYNO AE0341 ME 0,0000 \$130.81 0,0000 MEO115707 MEOTOR M	ME0115639			ME	2.0000	\$349.00	1.0000
ASSEMBLY PERLESS FOR SERVICE WATER PUMP PART NO PERRILESS COSSONA ME0115700 PUMP SEAL WATER ITT AC SERIES2000 W BASE COUPLING 1/2 HP 3500RPM 230/460V ODP MOTOR ME0115701 SEAL MECHANICAL FOR ITT PUMP MOTOR ME0115702 DELETED PUMP SEAL WATER ME 0.0000 \$.000 0.0000 ME0115704 GASKET MOYNO 15IN # RS4156-1 RS4156-1 ME 4.0000 \$.9.52 1.0000 ME0115705 RING RETAINING MOYNO #AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115707 GEAR RING MOYNO #AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115708 COVER PLATE BEARING MOYNO AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115708 GEAR RING MOYNO AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115708 GEAR RING MOYNO AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115708 GEAR RING MOYNO AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115708 GEAR RING MOYNO AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115708 GEAR RING MOYNO AE0085 AE0085 ME 2.0000 \$.5.64 1.0000 ME0115710 KIT PACKING GLAND MOYNO AE0341 ME 2.0000 \$.5.00 1.0000 ME0115710 KIT PACKING GLAND MOYNO AE0341 ME 2.0000 \$.0000 \$.0000 ME0115716 KIT CONNECTING ROD SOLUTION ROD SOLUTION POLYMER FEED PUMP #K0625S ME 2.0000 \$.0000 ME0115717 ROD CONNECTING SS MOYNO TE0257 ME 2.0000 \$.0000 \$.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 2.0000 \$.0000 \$.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 2.0000 \$.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 2.00000 \$.5.25 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 2.0000 \$.0000 \$.0000 ME0115726 KEY ROTATOR MOYNO RE0901 ME 2.00000 \$.0000 \$.0000	ME0115650			ME	1.0000	\$4,486.00	1.0000
SERIES2000 W BASE COUPLING 1/2 HP 3500/RPM 230/460V ODP MOTOR ME0115701 SEAL MECHANICAL FOR ITT PUMP PART NO 1850/42 DELETED PUMP SEAL WATER ME 0.0000 \$.00 0.0000 ME0115704 GASKET MOYNO 15IN # RS4156-1 ME 0.0000 \$.00 ME0115705 RING RETAINING MOYNO #AE0085 AE0085 ME 0.0000 \$130.81 0.0000 ME0115707 GEAR RING MOYNO #AE0085 AE0085 ME 0.0000 \$130.81 0.0000 ME0115708 COVER BEARING MOYNO AE0341 ME 0.0000 \$8.24 0.0000 ME0115710 KIT CONNECTING ROD SOLUTION PICK GLD PICK FEED PUMP #K0625S ME 0.0000 \$170.11 0.0000 ME0115717 BOD CONNECTING SS MOYNO TE0257 ME 0.0000 \$110.97 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$110.97 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$1.0000 ME0115725 RING RETAINING MOYNO AE0331 ME 0.0000 \$110.97 0.0000 ME0115726 RING RETAINING MOYNO AE0331 ME 0.0000 \$110.97 0.0000 ME0115726 RING RETAINING MOYNO AE0331 ME 0.0000 \$100.000 ME0115726 RING RETAINING MOYNO AE0331 ME 0.0000 \$1.0000 AE0331 ME 0.0000 \$1.0000 AE0331 ME 0.0000 \$1.0000 AE0331 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0331 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0331 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0115726 ME 0.0000 \$1.0000 AE0331 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0115725 ME 0.0000 \$1.0000 AE0115726 ME 0.0000 \$1.000	ME0115699	ASSEMBLY PEERLESS FOR SERVICE WATER PUMP PART NO		ME	0.0000	\$2,485.43	1.0000
PART NO 185042 ME0115702 DELETED PUMP SEAL WATER ME 0.0000 \$.00 0.0000 ME0115704 GASKET MOYNO 15IN # RS4156-1 RS4156-1 ME 4.0000 \$.00 \$.00 0.0000 ME0115705 RING RETAINING MOYNO #AE0085 AE0085 ME 2.0000 \$.564 1.0000 ME0115707 GEAR RING MOYNO #AE0952 AG0952 ME 0.0000 \$.130.81 0.0000 ME0115708 COVER PLATE BEARING MOYNO AE0341 ME 0.0000 \$.00 \$.130.81 0.0000 ME0115710 ME0115710 ME0115716 KIT PACKING GLAND MOYNO PKG GLD ME0115716 KIT CONNECTING ROD SOLUTION PKG GLD ME0115717 ROD CONNECTING SS MOYNO TE0257 ME ME 0.0000 \$.170.11 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$.10000 \$.10000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$.00 \$.10000 \$.10000 ME0115726 RING RETAINING MOYNO RE0981 ME 0.0000 \$.100000 \$.100000 \$.100000 \$.100000 \$.100000 \$.100000 \$.100000 \$.100000 \$.100000 \$.10	ME0115700	SERIES2000 W BASE COUPLING 1/2 HP 3500RPM 230/460V ODP		ME	1.0000	\$5,352.00	1.0000
ME0115704 GASKET MOYNO 15IN # RS4156-1 RS4156-1 ME 4.0000 \$9.52 1.0000 ME0115705 RING RETAINING MOYNO #AE0085 AE0085 ME 2.0000 \$5.64 1.0000 ME0115707 GEAR RING MOYNO #AG0952 AG0952 ME 0.0000 \$130.81 0.0000 ME0115708 COVER PLATE BEARING MOYNO AE0341 ME 0.0000 \$8.24 0.0000 ME0115710 KIT PACKING GLAND MOYNO PKG GLD ME0115716 KIT CONNECTING ROD SOLUTION RO625S ME 0.0000 \$170.11 0.0000 ME0115717 ROD CONNECTING SS MOYNO TE0257 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$7.73 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$52.53 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$3.09 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115701			ME	3.0000	\$114.48	2.0000
ME0115705 RING RETAINING MOYNO #AE0085 AE0085 ME 2.0000 \$5.64 1.0000 ME0115707 GEAR RING MOYNO #AG0952 AG0952 ME 0.0000 \$130.81 0.0000 ME0115708 COVER PLATE BEARING MOYNO AE0341 ME 0.0000 \$8.24 0.0000 ME0115710 KIT PACKING GLAND MOYNO PKG GLD ME 0.0000 \$.00 1.0000 ME0115716 KIT CONNECTING ROD SOLUTION PKG625S ME 0.0000 \$170.11 0.0000 ME0115717 ROD CONNECTING SS MOYNO TE0257 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$3.09 0.0000 ME0115726 KEY ROTATOR MOYNO	ME0115702	DELETED PUMP SEAL WATER		ME	0.0000	\$.00	0.0000
ME0115707 GEAR RING MOYNO #AG0952 AG0952 ME 0.0000 \$130.81 0.0000 ME0115708 COVER PLATE BEARING MOYNO #AE0341 ME 0.0000 \$8.24 0.0000 ME0115710 KIT PACKING GLAND MOYNO PKG GLD ME 0.0000 \$.00 1.0000 ME0115716 KIT CONNECTING ROD SOLUTION POLYMER FEED PUMP #K0625S ME 0.0000 \$170.11 0.0000 ME0115717 ROD CONNECTING SS MOYNO #E0257 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$3.09 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115704	GASKET MOYNO 15IN # RS4156-1	RS4156-1	ME	4.0000	\$9.52	1.0000
ME0115708 COVER PLATE BEARING MOYNO AE0341 ME 0.0000 \$8.24 0.0000 ME0115710 KIT PACKING GLAND MOYNO PKG GLD ME0115716 KIT CONNECTING ROD SOLUTION POLYMER FEED PUMP #K0625S ME0115717 ROD CONNECTING SS MOYNO TE0257 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO RE0761 ME 0.0000 \$3.09 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115705	RING RETAINING MOYNO #AE0085	AE0085	ME	2.0000	\$5.64	1.0000
#AE0341 ME0115710 KIT PACKING GLAND MOYNO PKG GLD ME0115716 KIT CONNECTING ROD SOLUTION K0625S ME 0.0000 \$170.11 0.0000 POLYMER FEED PUMP #K0625S ME 0.0000 \$170.11 0.0000 POLYMER FEED PUMP #K0625S ME 0.0000 \$168.92 0.0000 ME0115717 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$52.53 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115707	GEAR RING MOYNO #AG0952	AG0952	ME	0.0000	\$130.81	0.0000
ME0115716 KIT CONNECTING ROD SOLUTION POLYMER FEED PUMP #K0625S K0625S ME 0.0000 \$170.11 0.0000 ME0115717 ROD CONNECTING SS MOYNO #TE0257 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$3.09 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115708		AE0341	ME	0.0000	\$8.24	0.0000
ME0115717 ROD CONNECTING SS MOYNO TE0257 ME 0.0000 \$168.92 0.0000 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$52.53 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115710			ME	0.0000	\$.00	1.0000
#TE0257 ME0115719 SHELL JOINT MOYNO #BE0911 BE0911 ME 0.0000 \$101.97 0.0000 ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$52.53 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115716		K0625S	ME	0.0000	\$170.11	0.0000
ME0115723 PLATE THRUST MOYNO RE0981 ME 0.0000 \$6.39 0.0000 ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$52.53 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115717		TE0257	ME	0.0000	\$168.92	0.0000
ME0115724 COVER BEARING MOYNO AE0331 ME 0.0000 \$7.73 0.0000 ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$52.53 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115719	SHELL JOINT MOYNO #BE0911	BE0911	ME	0.0000	\$101.97	0.0000
ME0115725 RING RETAINING MOYNO TE020D ME 0.0000 \$52.53 0.0000 ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115723	PLATE THRUST MOYNO	RE0981	ME	0.0000	\$6.39	0.0000
ME0115726 KEY ROTATOR MOYNO RE0761 ME 0.0000 \$3.09 0.0000	ME0115724	COVER BEARING MOYNO	AE0331	ME	0.0000	\$7.73	0.0000
O DINO KITATO	ME0115725	RING RETAINING MOYNO	TE020D	ME	0.0000	\$52.53	0.0000
ME0115728 O RING KIT MOYNO KIE11Q AP16144Y1 ME 0.0000 \$2.84 0.0000	ME0115726	KEY ROTATOR MOYNO	RE0761	ME	0.0000	\$3.09	0.0000
	ME0115728	O RING KIT MOYNO KIE11Q	AP16144Y1	ME	0.0000	\$2.84	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0115729	SAME AS ME0115545 O RING KIT MOYNO # KGT11Q	KTG11Q	ME	0.0000	\$17.51	1.0000
ME0115730	DELETED SAME AS ME0115731 SCREW SET MOYNO BG054S	BG054S	ME	0.0000	\$2.06	0.0000
ME0115731	SCREW SET ROTATOR MOYNO BG054S		ME	0.0000	\$2.06	0.0000
ME0115732	LANTERN RING FOR 6IN WEMCO PART NO 181309		ME	3.0000	\$136.89	1.0000
ME0115733	REBUILD KIT FOR WEMCO 6IN PUMP PART NO K72622 08		ME	1.0000	\$1,537.38	1.0000 C
ME0115734	KIT CONNECTING ROD SS MOYNO AP12684Y	K0425S	ME	0.0000	\$117.94	0.0000
ME0115735	CONNECTOR SHAFT MOYNO	TE0361	ME	0.0000	\$258.01	0.0000
ME0115739	SEAL SHEAVE MOYNO #WE0871	WE0871	ME	0.0000	\$8.75	0.0000
ME0115741	SEAL RETAINER MOYNO #WE0088S	WE088S	ME	0.0000	\$44.46	0.0000
ME0115742	ROTOR MOYNO SS	C81041	ME	0.0000	\$322.91	0.0000
ME0115743	DELETED SAME AS ME0115719 SHELL GEAR JOINT MOYNO#950911	950911	ME	0.0000	\$210.00	1.0000
ME0115752	GEAR JOINT KIT MOYNO KG0951	KG0951	ME	1.0000	\$1,074.46	1.0000
ME0115755	ROTOR MOYNO STANARD STEEL CHROME PLATED FOR DEWATERING POLYMER SOLUTION PUMP C71061		ME	0.0000	\$474.15	0.0000
ME0115756	STATOR MOYNO FOR POLYMER SOLUTION PUMP DEWATERING C4106F		ME	0.0000	\$879.87	0.0000
ME0115760	SHIM PLASTIC .030 FOR SCUMP PUMP E RAS PART NO 52 108 474 006		ME	12.0000	\$4.48	6.0000
ME0115761	SHIM PLASTIC .015 FOR SCUMP PUMP E RAS PART NO 52 108 474 005		ME	12.0000	\$4.48	6.0000
ME0115762	SHIM PLASTIC .005 FOR SCUMP PUMP E RAS PART NO 52 108 474 004		ME	12.0000	\$3.36	6.0000
ME0115765	GASKET FOR CASING STUFF BOX RED RUBBER FOR SCUMP PMUP E RAS PART NO 52 112 996 010		ME	4.0000	\$44.24	2.0000
ME0115770	ROTOR FOR DEWATERING MOYNO PART NO C7F91)	ME	2.0000	\$7,335.90	0.0000
ME0115771	STATOR FOR DEWATERING MOYNO PART NO C3290Q	C3290Q	ME	2.0000	\$.00	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0115772	GEAR JOINT SEAL KIT FOR DEWATERING MOYNO PART NO KPF87Q	KPF87Q	ME	4.0000	\$.00	0.0000
ME0115773	SEAL MECHANICAL FOR DEWATERING MOYNO PART NO EU5 W V	EU5-W V	ME	1.0000	\$.00	0.0000
ME0115774	SEAMETRIC FLOW SENSOR PART 7820024 FOR POLYMER SYSTEM		ME	3.0000	\$425.13	2.0000
ME0115775	CONNECT ROD G1 F065 90 PARTR PF0252 FOR MOYNO PUMP		ME	0.0000	\$757.25	1.0000
ME0116001	SHOE FLAT WEAR RETURN BLACK PRIMARY PART NO 303-2376-1		ME	78.0000	\$9.00	50.0000
ME0116002	SHOE WEAR CARRY PRIMARY PART 303-2099-1		ME	231.0000	\$8.55	50.0000
ME0116003	FLIGHT CROSS SIGMA BLANK 3IN X 8IN X 70IN FOR PRIMARY		ME	37.0000	\$112.27	3.0000
ME0116004	PRIMARY RIGHT WEAR SHOE		ME	156.0000	\$10.76	25.0000
ME0116005	SPACER FLIGHT 4.81 X 6.81 X 2.88IN T 8IN SIG PLUS POLY FOR PRIMARY TANKS PART NO 303 702627 1		ME	114.0000	\$8.00	30.0000
ME0116006	FLIGHT SIGMA PRE CUT AND DRILLED 3IN X 8IN X 197IN PART NO V02 298413 1 FOR PRIMARY TANKS		ME	14.0000	\$150.00	25.0000
ME0116007	CHAIN ATTACHMENT LINK NCS720S F28 FOR PRIMARY TANK PART NO 303 60511 2		ME	0.0000	\$16.00	16.0000
ME0116008	CHAIN PIN NCS720S CHAIN R166 E PART NO 841 32180 FOR PRIMARY TANK		ME	92.0000	\$2.50	16.0000
ME0116009	CHAIN H MILL H78 PIN AND COTTER 2 METAL PART NO 841 28000 FOR PRIMARY TANK MADE IN 16FT LENGTHS		ME	0.0000	\$218.91	1.0000
ME0116010	CHAIN PINTLE NCS720S NON MET .120.00IN LG F28 ATCH PART NO 303 80178 6 FOR PRIMARY		ME	0.0000	\$112.88	15.0000
ME0116019	CHAIN TIGHTENER FOR H78 CHAIN PART NO 603 81408 101 FOR PRIMARYTANK	I	ME	0.0000	\$925.00	1.0000
ME0116020	WEAR STRIPS .38 X 3.00 X 119.50 W / 5 HLS2 BVL UHMW PRIMARY PART NO 303-80410-1		ME	150.0000	\$40.00	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0116021	WEAR STRIP .38 X 3.00 X 119.50 W 8HLS 1 BVL UHMW PRIMARY PART NO 303-80410-2		ME	36.0000	\$43.00	10.0000
ME0116022	STRIP POLY 4INX1/4INX12IN WITH HOLES PRIMARY		ME	12.0000	\$34.00	10.0000
ME0116023	STRIP RUBBER 5X5/8X60 PRIMARY		ME	0.0000	\$.00	10.0000
ME0116054	ARM SKIM BLADE ADJUSTMENT M-GC RFS FOR PRIMARY TANK PART NO 017277		ME	3.0000	\$562.00	1.0000
ME0116300	PRIMARY SHAFT SUPPORT	P50379	ME	0.0000	\$15.88	0.0000
ME0116301	ROLLER M GC NEOP SOX CRNR ARM FOR HOUSING PRIMARY TANKS 1 THRU 8 DORR OLIVER PART NO 045858		ME	12.0000	\$379.18	5.0000
ME0116302	SHAFT SLEEVE FOR WEMCO 6IN PUMP PART NO 47607B		ME	3.0000	\$865.25	1.0000
ME0116303	BRACKET ROLLER MS SOX CLR PRIMARY TANKS 1 THRU 8 DORR OLIVER PART 046086		ME	1.0000	\$584.97	2.0000
ME0116304	PIN CRS CRNR ARM ROLLER SOX PRIMARY TANKS 1 THRU 8 DORR OLIVER PART NO 045850		ME	10.0000	\$344.50	2.0000
ME0116305	WASHER PHENOLIC #2-04A1012301 PRIMARY	2-04A1012301	ME	9.0000	\$1.29	2.0000
ME0116306	ROLLER BUSHING DELRIN FOR RFS2 SKIMMER 1THRU 8 DORR OLIVER PART NO 106888		ME	11.0000	\$85.25	2.0000
ME0116308	COLLAR THURST 1.453IN ID X 2.25IN O.D. X .25IN BRNZ FOR PRIMARY TANK PART NO CA419-1 W3T23719		ME	4.0000	\$30.00	2.0000
ME0116320	PUMP WEMCO 6IN MODEL C/ 1 PUMP SPEED 960 RPM FOR EAST AND WEST GRIT PUMP AREAS		ME	0.0000	\$24,611.00	1.0000
ME0116325	HUB SHEAR PIN 2.126INB W .500INW KW 4.3IN LG CI FOR PRIMARY TANKS 9 AND 10 COLLECTOR DRIVE PART NO 403 50277 13		ME	3.0000	\$398.00	2.0000
ME0116326	LIMIT TRIP SWITCH PARTS KIT FOR PRIMARY TANK 9 AND 10 COLLECTIVE DRIVE PART NO 60381853 500		ME	4.0000	\$30.00	2.0000
ME0116327	REBUILD KIT FOR 4IN WEMCO PART NO K72622-06		ME	2.0000	\$746.20	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0116328	LANTERN RING FOR 4IN WEMCO PART NO 181308		ME	3.0000	\$32.76	1.0000
ME0116329	REPAIR KIT FOR 4IN MODEL C PRIMARY PUMP PART NO 72951 K04R		ME	2.0000	\$257.40	3.0000
ME0116330	SHAFT RH ROTATION PART NO 79937AR FOR PRIMARY SLUDGE PUMP		ME	0.0000	\$803.79	1.0000
ME0116331	SHAFT LH ROTATION PART NO 79937AL FOR PRIMARY SLUDGE PUMP		ME	0.0000	\$803.79	1.0000
ME0116332	IMPELLER PART NO 21198ER FOR EAST SLUDGE PUMP		ME	1.0000	\$2,118.87	1.0000
ME0116333	SLEEVE PART NO 47460D FOR EAST PRIMARY SLUDGE PUMP		ME	0.0000	\$525.33	1.0000
ME0116334	IMPELLER NUT RH PART NO 46046AR FOR EAST PRIMARY SLUDGE PUMP		ME	1.0000	\$84.24	1.0000
ME0116335	IMPELLER NUT LH PART NO 46046AL FOR WEST PRIMARY SLUDGE PUMP		ME	1.0000	\$84.24	1.0000
ME0116336	WEMCO WET END GASKIT KIT INCLUDES PACKING AND LANTERN RING PART NO K72622-05 FOR PRIMARY SLUDGE PUMP		ME	0.0000	\$268.52	1.0000
ME0116337	BEARING PART NO 38807 FOR PRIMARY SLUDGE PUMP		ME	5.0000	\$65.95	3.0000
ME0116338	BEARING PART NO 100001 FOR PRIMARY SLUDGE PUMP		ME	1.0000	\$85.78	2.0000
ME0116339	SNAP RING PART NO 142007 FOR PRIMARY SLUDGE PUMP		ME	2.0000	\$2.34	6.0000
ME0116340	SHAFT SEAL PART NO 157062 FOR PRIMARY SLUDGE PUMP		ME	2.0000	\$10.84	4.0000
ME0116341	SLINGER PART NO 145085 FOR PRIMARY SLUDGE PUMP		ME	6.0000	\$43.29	6.0000
ME0116342	BEARING CAP GASKET PART NO 45859A FOR PRIMARY SLUDGE PUMP		ME	4.0000	\$4.10	4.0000
ME0116343	SHIM PART NO 45859B FOR PRIMARY SLUDGE PUMP		ME	80.0000	\$1.17	6.0000
ME0116344	IMPELLER LEFT HAND PART NO 21198EL FOR WEST PRIMARY SLUDGE PUMP NORTH GALLERY		ME	3.0000	\$2,466.36	1.0000
ME0116345	IMPELLER RIGHT HAND P N 21298ER PRIMARY PUMP		ME	0.0000	\$.00	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0116346	PACKING GLAND FOR WEMCO P N 41503A		ME	3.0000	\$281.97	1.0000
ME0116348	IMPELLER WEMCO 4IN PART NO 21198R		ME	2.0000	\$2,091.96	1.0000
ME0116349	SHAFT WEMCO 4IN PART NO 40769AL		ME	3.0000	\$926.64	1.0000
ME0116350	SLINGER WEMCO 4IN PART NO 145084		ME	0.0000	\$3.51	0.0000
ME0116351	GASKET WEMCO 4IN PART NO 80826A		ME	2.0000	\$8.19	1.0000
ME0116352	O RING WEMCO 4IN PART NO 142099		ME	5.0000	\$4.91	1.0000
ME0116353	GASKET WEMCO 4IN PART NO 42741A		ME	2.0000	\$65.52	2.0000
ME0116354	SHIM WEMCO 4 IN PART NO 45859C		ME	3.0000	\$3.51	3.0000
ME0116355	GASKET WEMCO 4IN PART NO 145082		ME	1.0000	\$1.17	1.0000
ME0116356	GASKET WEMCO 4IN PART NO145083		ME	4.0000	\$1.17	4.0000
ME0116357	BEARING INBOARD FOR 4IN WEMCO PART NO 100320		ME	6.0000	\$40.97	2.0000
ME0116359	IMPELLER BOLT LEFT HAND THREAD PART NO 204437 FOR WEMCO		ME	3.0000	\$39.78	1.0000
ME0116364	SHAFT SEAL KIT GEAR PUMP 155-0200-09 PART NO 055-686632K		ME	4.0000	\$133.95	2.0000
ME0116365	PUMP GEAR PART NO 155-0200-09		ME	0.0000	\$569.50	2.0000
ME0116366	BEARING HOUSING FOR 6IN WEMCO PART NO 63856-1	63856-1	ME	2.0000	\$5,166.72	1.0000
ME0116367	SHAFT FOR 6IN WEMCO PART NO 40751AR		ME	4.0000	\$1,181.70	1.0000
ME0116368	SPLIT GLAND SET FOR WEMCO 6IN PART NO 414505A		ME	3.0000	\$355.68	1.0000
ME0116400	PULLEY GUARD ASSEMBLY FOR CLARIFIER		ME	0.0000	\$1,048.00	2.0000
ME0116401	CAP ASSEMBLY 130-ABR-1000-3S INCLUDING CAP BASE CHAIN GASKET AND STRAINER FOR CLARIFIERS 1-16		ME	8.0000	\$96.72	2.0000
ME0117301	DONOT USE SAME ME0117320 BELT FILTER PRESS TOP 2134mm x17043mm OR SIZE 84 INCH X55FEET 11INCHES FOR PRESSES #1,3,4	377054	ME	0.0000	\$2,342.67	0.0000

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Stock Number	Description Part I	No Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0117308	PLOW FILTER PRESS DEWATERING	ME	0.0000	\$20.15	10.0000
ME0117309	BELT CONVEYOR 3/16 IN X 18 IN ARTK TWO PLY	K22062316G ME	244.0000	\$6.71	10.0000
ME0117312	BLADE WIPER PVC FOR TRASH RACK	ME	1.0000	\$337.00	1.0000
ME0117313	SWITCH PRESSURE HIGH BARKSDALE CD1H-A-150SS FOR GBT	ME	1.0000	\$194.26	1.0000
ME0117318	NOZZLE .371LS.2.5(2.2M) PACK OF QTY 22 FOR KOMLINE GBT PART NO Z3691028	ME	352.0000	\$4.23	22.0000
ME0117319	FASTENERS FOR WIPER BLADE ON TRASH RACK	ME	2.0000	\$334.00	1.0000
ME0117320	BELT TOP K-S STYLE 4086 87IN X K-S40 35FT 11IN K-S SS CLIPPER FOR PRESS#2 JOB 3824/3934	086 ME	3.0000	\$1,477.00	1.0000
ME0117321	BELT BOTTM K-SSTYLE 4086 87IN K-S40 X 69FT 3IN K-S 40 SS CLIPPER SEAM FOR PRESS #2 JOB 3824/3934	086 ME	3.0000	\$2,681.00	1.0000
ME0117324	SENSOR VLV WITH PADDLE BELT 03902 TRACK FOR KOMLINE PRESS 2 PART NO 0390210 0390255	255 W PADDLE ME	0.0000	\$321.00	1.0000
ME0117325	SENSOR HYDRAULIC FOR BELT 63959 PRESS 2 PART NO. 6395934	934 ME	4.0000	\$779.00	1.0000
ME0117326	PADDLE ONLY FOR PRESS PART NO 0390255	ME	6.0000	\$26.00	4.0000
ME0117327	PADDLE TRIANGLE ONLY FOR PRESS PART NO 0390509	ME	4.0000	\$47.00	4.0000
ME0117328	SIDE SEAL MOLDED RUBBER 60 KOMLINE PART NO 28R1504 250	ME	181.0000	\$3.02	10.0000
ME0117329	RETAINING RING S.S B&F#2 PART NO 6391017 FOR KOMLINE GBT	ME	100.0000	\$10.00	10.0000
ME0117330	BRUSH REPLACEMENT 2.2M PART NO 6395905 FOR KOMLINE DEWATERING	ME	4.0000	\$765.00	1.0000
ME0117331	PIPE BELT WASH GRSIII-2 METER PART NO 6395905 KOMLINE DEWATERING # 1-4	ME	2.0000	\$2,950.00	1.0000
ME0117332	PLOW NEW ROTO TRAK KOMLINE PART 03Q0176 FOR DEWATERING	ME	50.0000	\$37.00	25.0000
ME0117334	LAMP 10 PACK 24 V PUSH PULL PART NO Z90A0138 FOR KOMLINE	ME	20.0000	\$2.00	1.0000

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Stock Number	Description Part	t No Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0117335	DRAIN GRID TUBE(WEAR) GRSIII 2M PART NO 0393210 FOR KOMLINE	ME	22.0000	\$150.45	12.0000
ME0117336	VALVE PRESSURE REDUCING PART NO PPDB-KDN FOR KOMLINE	ME	3.0000	\$153.00	1.0000
ME0117337	BRUSH SEALGRS2M -CUT 87 IN LONG PART NO Z63910219(2) 4PK FOR KOMLINE DEWATERING	ME	20.0000	\$106.46	1.0000
ME0117338	ROTO KONE POLY 15 DEGREE PATENTED PART NO 03Q0152 KOMLINE	ME	49.0000	\$37.00	10.0000
ME0118040	BELT PRESS ROLLER 8 3/4 SHAFT 2 15/16	ME	0.0000	\$733.00	0.0000
ME0118041	BELT PRESS ROLLER 8 3/4 SHAFT 2 7/16	ME	0.0000	\$733.00	0.0000
ME0118042	BELT PRESS ROLLER 24 3/4 SHAFT 2 15/16	ME	0.0000	\$1,845.00	0.0000
ME0118043	BELT PRESS ROLLER 10 3/4 SHAFT 2 15/16 FOR #6 & #9	ME	0.0000	\$3,258.00	0.0000
ME0118044	BELT PRESS ROLLER 18 3/4 SHAFT 2 15/16	ME	0.0000	\$1,427.00	0.0000
ME0118045	PULLEY 12 X 26 CR FACE WITH 1-15/16 X 40 SHAFT DODGE	ME	0.0000	\$741.81	1.0000
ME0118046	PULLEY 12 X 26 CR FACE QUARRYDUTY W 2IN X 40IN SHAFT DRIVEN END	ME	0.0000	\$771.26	1.0000
ME0118047	SHEAVE PULLEY 2 / 5V18.7 QD-SF	ME	1.0000	\$296.86	1.0000
ME0118050	STRIP POLY BFP 2X1/4X80	ME	0.0000	\$28.00	0.0000
ME0118051	CYLINDER POLY 2DIA 6 LONG	ME	0.0000	\$2.75	0.0000
ME0118052	WATER SPRAY ASSEMBLY 3	ME	0.0000	\$.00	0.0000
ME0118053	WATER PANS	ME	0.0000	\$.00	0.0000
ME0118054	FILTER PARKER 9219	999 ME	0.0000	\$24.00	0.0000
ME0118055	CONTROL MOTOR PARKER CPC	OM2DVV-50 ME	0.0000	\$145.75	1.0000
ME0118056	STRIP POLY 2 1/2X1/4X92 BFP	ME	0.0000	\$18.45	0.0000
ME0118057	STRIP POLY 1 1/4INX1/4INX92IN BFP	ME	0.0000	\$7.00	0.0000
ME0118058	STRIP POLY 1 1/4X1/4X92 WITH HOLES BFP	ME	0.0000	\$14.00	0.0000
ME0118059	VALVE PILOT HYDRAULIC DIVI PARKER	L4NN-72 ME	0.0000	\$219.00	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0118060	VALVE DIRECTIONAL PARKER #DIVW4CNYCF-75 DEWATERING	DIVW4CNYCF-75	ME	0.0000	\$186.00	0.0000
ME0118061	VALVE REDUCER PARKER	PRM2PP17KN-42	ME	0.0000	\$276.00	1.0000
ME0118062	ELBOW STREET ADAPTER 1INX90 BFP PARKER		ME	0.0000	\$264.55	1.0000
ME0118063	VALVE LOCK OUT HYDRAULIC PARKER	PRM2PP17LN-42	ME	0.0000	\$276.00	1.0000
ME0118064	KIT PRESSURE FLOW MOTION CONTROL PARKER	PCM6005	ME	0.0000	\$91.00	1.0000
ME0118065	CYLINDERS HYDRAULIC PARKER	KK253430A	ME	0.0000	\$766.60	0.0000
ME0118066	FILTER OIL BASE PARKER		ME	0.0000	\$11.50	1.0000
ME0118067	FITTING PARKER 8 JIC X 8 TUBE #8-8X6HBZ6	8-8X6HBZ6-SS	ME	0.0000	\$18.50	1.0000
ME0118069	MICRO TORK SYSTEM	908-754-2771	ME	0.0000	\$128.56	1.0000
ME0118070	DONOT USE PULLEY LAGGED HERRING BONE 14IN X 26IN 2- 3/16 # HE25 DEWATER B PRESS DRIVE END		ME	0.0000	\$1,104.70	0.0000
ME0118072	HEATER EXCHANGE THERMAL TRANSFER DEWATERING		ME	0.0000	\$190.00	1.0000
ME0118073	FILTRATION PARKER #932017 DEWATERING	B 932017	ME	0.0000	\$85.77	0.0000
ME0118074	FILTRATION PARKER #932019 DEWATERING	932019	ME	0.0000	\$75.60	0.0000
ME0118075	FLOW METER HEDLAND 1/4IN NPT 0-5GPM 3000 PSI #701-005 DEWATERING	701-005	ME	0.0000	\$205.00	1.0000
ME0118076	PRESSURE COMPENSATED FLOW CONTROL #PCM600S DEWATERING	PCM600S	ME	0.0000	\$91.00	1.0000
ME0118077	VALVE CHECK PARKER #C600S DEWATERING	C600S	ME	0.0000	\$18.15	0.0000
ME0118078	MALE CONNECTOR #8-8-FBTX-S DEWATERING	8-8-FBTX-S	ME	0.0000	\$2.90	1.0000
ME0118079	MALE CONNECTOR #6-6-FBTXS DEWATERING	6-6-FBTX-S	ME	0.0000	\$1.91	1.0000
ME0118080	MALE OUTLET TEE # 6-6-6-SBTX-S DEWATERING	6-6-6-SBTX-S	ME	0.0000	\$6.40	2.0000
ME0118081	MALE ELBOW # 4-4-CBTX-S DEWATERING	4-4CBTX-S	ME	0.0000	\$3.20	1.0000
ME0118082	REDUCER # 1/2 X 1/4-PTR-S DEWATERING	1/2X1/4-PTR-S	ME	12.0000	\$5.03	1.0000

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Stock Number	Description P	art No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0118083	ADAPTER #3107-8-8 DEWATERING 3	107-8-8	ME	12.0000	\$12.13	1.0000
ME0118084	ITEM DELETED SAME AS 4- PL0205043	-F50X-S	ME	0.0000	\$1.20	0.0000
ME0118085	GAGE ISOLATER 6 STATION # NCG1-02S-6 DEWATERING	ICG1-02S-6	ME	0.0000	\$115.50	0.0000
ME0118086	GAGE PRESSURE PANEL P MOUNTED 0-2000PSI 4IN DIA FACE DEWATERING	PGL-A-100-N-B-2000-P	ME	0.0000	\$112.00	0.0000
ME0118087	HYDRAULIC MANIFOLD FOUR STATION DO THREE COMPLETE / DIRECTIONAL CONTROL DEWATER		ME	0.0000	\$2,640.00	0.0000
ME0118088	BOLT KIT 10-24 X 4.38 UNC-2A B #BK225 DEWATERING	3K225	ME	3.0000	\$33.00	1.0000
ME0118089	PUMP PISTON PARKER # P. P. P. P. P. P. P. P. P. P. P. P. P.	PAVC33R22A	ME	0.0000	\$1,098.00	0.0000
ME0118090	BOLT KIT #BK209 DEWATERING B	8K209	ME	3.0000	\$8.00	1.0000
ME0118091	BOLT KIT #BK243 DEWATERING B	3K243	ME	3.0000	\$38.56	1.0000
ME0118092	ITEM DELETED SAME AS ME0102086	1300	ME	0.0000	\$.00	0.0000
ME0118093	INSERT MAGNALOY #370 3 DEWATERING	370	ME	4.0000	\$12.00	1.0000
ME0118094	STROKE CYLINDER UPPER BELT 3. #3.25C2HLUS29A16.00	.25C2HLUS29A16.00	ME	0.0000	\$1,378.00	0.0000
ME0118300	MANIFOLD D03 NPT PORTS B	BM-AHP03P2-04-1/Z	ME	0.0000	\$208.00	1.0000
ME0118304	BELT GRAVITY K-S STYLE 4086 K 87IN X 33FT 9IN / K-S40 SS CLIPPER DAF BLDG S3805	C-S STYLE4086	ME	2.0000	\$1,377.00	1.0000
ME0118324	LIMITORQUE VALVE LY 1001 30 SECOND UNIT 3 460 60 POWER FOR GBT PART NO LY 1001 30		ME	0.0000	\$.00	0.0000
ME0118325	REPAIR KIT FOR LMI PUMP GBT POLYMER PUMP PART NO SP 25HV		ME	0.0000	\$142.29	1.0000
ME0118326	LIQUID END ASSEMBLY FOR GBT POLYMER PART NO LE 25HV		ME	0.0000	\$469.00	1.0000
ME0118327	SPRING STAINLESS STEEL FOR LMI PUMP PART NO 25558		ME	10.0000	\$4.68	4.0000
ME0118328	ACRYLIC HIGH VISCOSITY HEAD FOR LMI PUMP PART NO 10524-3		ME	2.0000	\$258.50	1.0000
ME0118329	HYPALON SEAL RING FOR LMI PUMP PART NO 10128		ME	8.0000	\$6.20	4.0000

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Stock Number	Description Part	t No Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0118330	BALL CHECKSTAINLESS STEEL .50IN FOR LMI PUMP PART 25042	ME	7.0000	\$4.00	4.0000
ME0118331	VALVE HOUSING BARBED PP FOR LMI PUMP PART NO 31332	ME	1.0000	\$18.64	2.0000
ME0118332	SUCTION VALVE SEAT BARBED FOR LMI PUMP PART NO 25649	ME	5.0000	\$22.70	2.0000
ME0118333	PUMP LMI C931-20HV FOR DAF BLDG	ME	0.0000	\$1,545.60	1.0000
ME0118335	VALVE HOUSING 1/2 IN NPT FOR C931-20HV DAF BLG PART NO 26033	ME	3.0000	\$50.00	1.0000
ME0119030	SHAFT FOR BARSCREEN 2.44 X 64 A ₁₀	08-1018 ME	0.0000	\$184.34	0.0000
ME0119031	ROLLER WITH BRONZE BUSHING FOR BARSCREEN	ME	4.0000	\$590.91	2.0000
ME0119300	SHAFT LOCKING COLLAR 2-1/2 - SET	ME	0.0000	\$.00	0.0000
ME0119301	SPACER END FLOAT COUPLING FALK PUMP ROOM 2	ME	0.0000	\$1.58	1.0000
ME0119302	BRACKET ROLLER SVEDALA MD- INDUSTRY	-IDL-019-57 ME	0.0000	\$13.45	1.0000
ME0119303	PLATES HOLDING IMPELLAR	ME	0.0000	\$1.62	0.0000
ME0119304	KEY SQUARE SHAFT FOR WEMCO PUMP PART NO 23395	ME	3.0000	\$4.68	4.0000
ME0119305	SHAFT DRIVE FOR SHORT SCREW CONVEYOR 19FT AUGER BARSCREEN PUMPROOM	ME	0.0000	\$1,056.00	1.0000
ME0119306	AUGER 19FT SPIRAL WITH COUPLING DISC SHORT SCREW CONVEYOR FOR BARSCREEN PUMP ROOM (TWO SECTIONS EQUAL ONE 19FT AUGER ISSUE AND ORDER BY SECTION)	ME	1.0000	\$2,254.20	1.0000
ME0119307	AUGER SPIRAL 33FT WITH COUPLING FOR LONG SCREW CONVEYOR BARSCREEN PUMPROOM (THREE SECTIONS EQUAL ONE 33FT AUGER-ISSUE AND ORDER BY SECTION)	ME	2.0000	\$2,433.20	1.0000
ME0119308	SHAFT DRIVE FOR LONG SCREW CONVEYOR BARCREEN PUMP ROOM	ME	1.0000	\$1,056.00	1.0000
ME0119310	DRIVE ASSEMBLY NORTH TANK 4854 #48548-2	48-2 ME	0.0000	\$20,321.00	0.0000
ME0119311	DRIVE ASSEMBLY SOUTH TANK # 4854 48548-1	48-1 ME	0.0000	\$20,321.00	0.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0119312	DRIVE PLATE COMPELTE FOR TRASH RAKE REF NO 010901S		ME	1.0000	\$1,770.00	1.0000
ME0119316	SPROCKET HEAD SHAFT FOR TRASH RAKE		ME	2.0000	\$2,605.50	2.0000
ME0119317	SHOCK FOR TRASH RAKE		ME	2.0000	\$68.33	2.0000
ME0119320	HEADSHAFT 304 STAINLESS STEEL WITH KEY FOR TRASH RACK		ME	1.0000	\$4,229.00	1.0000
ME0119321	CHAIN MAIN COMPLETE WITH RAKE ATTACHMENT 139FT		ME	2.0000	\$6,635.00	1.0000
ME0120106	FILTER OIL HYDRAULIC POWER PACK	M-3230	ME	0.0000	\$11.94	0.0000
ME0120107	SIDE SEAL 5.00 X 179.63IN LONG H116084 126 100 FOR DEWATERING PRESS 1 3 4		ME	4.0000	\$185.00	2.0000
ME0120108	STEERING HYDRAULIC CYLINDER FOR DEWATERING PRESS SIZE 3-1/4 IN X 5 IN STROKE PART 6395946		ME	0.0000	\$1,215.00	1.0000
ME0120109	TAKE UP HYDRAULIC CYLINDER FOR DEWATERING PRESS SIZE 2-1/2 IN X 9 IN STROKE PART 6395945		ME	0.0000	\$1,148.00	1.0000
ME0120225	MULTIPORT INJECT PLATE 6IN WITH FITTING FOR KOMLINE PART NO 03Q0195		ME	4.0000	\$412.00	1.0000
ME0120300	CYLINDER HYDRALIC MOD 02.00 KC2H PARKER S/N KK190717A	KK190717A	ME	0.0000	\$570.60	1.0000
ME0120301	CYLINDER HYDRALIC MODEL 2.00KC2HL2323A PARKER S/N KK279209A	KK279209A	ME	0.0000	\$766.60	1.0000
ME0120302	FLOW CONTROL PARKER JF	PF400B/4A789	ME	4.0000	\$139.00	1.0000
ME0120304	PUMP HYDRALIC VARIABLE VOLUME PARKER #PAVC334R224	PAVC33R224	ME	0.0000	\$1,098.00	0.0000
ME0120305	CONNECTOR MALE 1/2 X 3/8 5327X4	5327X4	ME	26.0000	\$5.59	2.0000
ME0120306	HEAT EXCHANGER MODEL B-401-A4-0	B401	ME	0.0000	\$190.00	0.0000
ME0120307	LEVEL SWITCH WITH BRACKET FOR FILTER BLDG F01807		ME	2.0000	\$125.00	2.0000
ME0120309	HYDRAULIC OIL PUMP AND MOTOR ASSEMBLY		ME	1.0000	\$3,045.00	1.0000
ME0120310	MOTOR HYDRAULIC D-WATER EATON CHAR-LYNN	103-3044-010	ME	0.0000	\$379.00	2.0000

Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0120312	SWITCH ASHCROFT SERIES B FOR GAS COMPRESSOR MODEL B724B XFS 15IN H2O VAC/15IN H20 EXPLOSION PROOFBUNA N ACTUATOR SEAL		ME	3.0000	\$438.67	1.0000
ME0120313	AIR REGULATOR PART NO Z36E6458 FOR BELT PRESS		ME	3.0000	\$142.00	1.0000
ME0120324	PRESSURE SWITCH WITH DIN CONNECTOR FOR PRESS 2 JOB S3824		ME	2.0000	\$177.00	1.0000
ME0120350	CLAMP ARM ROD MIS ALIGN SW FOR KOMLINE BELT PRESS PART NO 90X0104		ME	1.0000	\$49.00	2.0000
ME0120351	LIMIT SWITCH WITH CABLE MIS ALIGN FOR KOMLINE PRESS PART NO 90X0146		ME	6.0000	\$408.50	2.0000
ME0120352	ROD 1/4IN DIAA SS 10IN LONG PK OF 2 FOR KOMLINE PRESS PART NO 54H0002 2		ME	17.0000	\$8.00	6.0000
ME0120353	SOLENOID 2-1/2IN NEMA4X WASHWATER MANIFOLD FOR KOMLINE PRESS PART 36M4501		ME	1.0000	\$1,245.00	1.0000
ME0120354	SWITCH NASON PRESSURE WASH WTR FOR KOMLINE PRESS PART 90X9018		ME	2.0000	\$125.00	2.0000
ME0120355	SOLENOID VALVE 1/4IN PIPE THREAD FOR AIR LINE ON KOMLINE PRESS PART NO 36P4556		ME	2.0000	\$127.00	2.0000
ME0120356	BELT SENSOR ASSEMBLY LESS PADDLE FOR KOMLINE PRESS PART NO 0390210	0390210	ME	2.0000	\$346.00	1.0000
ME0120357	AIR CYLINDER 4X5 PHENOL GRSIII FOR KOMLINE PRESS PART NO 6395941		ME	1.0000	\$1,178.00	1.0000
ME0120358	GEAR PLASTIC 17T WITH KEY FOR KOMLINE PRESS PART NO 43Q1004		ME	10.0000	\$105.00	4.0000
ME0120359	RACK GEAR PHOEN TAKE UP GRS&3 FOR KOMLINE PRESS PART NO 03Q0229		ME	9.0000	\$102.00	2.0000
ME0120360	GEAR PINION MOTOR FOR BELT DRIVE REDUCER		ME	5.0000	\$39.00	2.0000
ME0120361	GEAR MATING TO PINION FOR BELT DRIVER REDUCER		ME	4.0000	\$66.00	2.0000

Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0120362	BUSHING RUBBER FLEX STEER FOR STEERING CYLINDER ON KOMLINE PRESS PART NO 03R0061		ME	12.0000	\$9.00	6.0000
ME0120365	SWITCH NASON PRESSURE WASH WATER PART NO Z90X9018 DAF BLDG		ME	1.0000	\$131.00	1.0000
ME0120400	BLADE ASSY 24IN BELT PRE-CLEANER DEWATERING PRESS		ME	0.0000	\$364.79	1.0000
ME0120401	TENSIONER SPRING PRE CLEANER		ME	0.0000	\$420.91	1.0000
ME0120402	MOUNT PRE CLEANER DEWATERING PRESS		ME	0.0000	\$107.93	1.0000
ME0120403	BLADE ASSY SECONDARY BELT SCAPER DEWATERING PRESS		ME	0.0000	\$590.72	1.0000
ME0120404	TENSIONER SECONDARY BELT SCAPER DEWATERING PRESS		ME	0.0000	\$425.95	1.0000
ME0120451	SWITCH PRESSURE FOR HYDRAULIC POWER PAK PART NO P3824 10050 D GEMS DEWATERING		ME	4.0000	\$223.75	1.0000
ME0121304	GAGE GLASS PART NO 154 0351 FOR DBS DRIVE COLLECTOR		ME	4.0000	\$53.00	2.0000
ME0121305	FIVE MANIFOLD ASSEMBLY C10001 401 05S COMPLETE W BOLTS AND GASKETS		ME	1.0000	\$173.50	1.0000
ME0121308	STUD FOR LOWER CLAMP PART NO 2183 140 FOR GRAVITY AND DIGESTER PUMP		ME	4.0000	\$17.00	4.0000
ME0121309	CLAMP LOWER 4C PUMP PART NO 01C12068-04 FOR GRAVITY AND DIGESTER PUMP	01C12068-04	ME	4.0000	\$1,492.83	1.0000
ME0121310	DIAPHRAM NORDEL #01B12000-03	01B12000-03	ME	3.0000	\$338.00	2.0000
ME0121311	DELETED DONOT USE DIAPHRAM LOWER PLATE #021160B SAME AS ME0121314	021160B	ME	0.0000	\$665.00	0.0000
ME0121312	CAPSCREW SH STL NC 1/2 X 7/8 DIAPHRAM		ME	11.0000	\$11.84	1.0000
ME0121317	UPPER CLAMP ODS PUMP O1C12066 01	O1C12066-01	ME	3.0000	\$620.00	1.0000
ME0121318	COIL C4-11AA		ME	1.0000	\$11.00	2.0000
ME0121319	COIL WITH COVER		ME	0.0000	\$36.00	2.0000
ME0121320	VALVE PILOT 250 B116 AA		ME	2.0000	\$105.00	2.0000

Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0121321	REPAIR KIT F2-0B		ME	4.0000	\$13.67	2.0000
ME0121322	INDICATOR ROD ASSEMBLY FOR ODS AIR DIAPHRAM DIGESTER GRAVITY 12B10589 01		ME	5.0000	\$214.40	1.0000
ME0121323	PUMP BODY FOR ODS AIR DIAPHRAGM IN GRAVITY BLDG 2X7E232		ME	2.0000	\$1,509.00	1.0000
ME0121325	PALLET INSERT TEFLON FOR BREATHER VALVE ALL WEATHER MODEL NO 2011B4IN PART NO B12741 093 FOR DIGESTER PRESSURE RELIEF VALVE	B12741-093	ME	14.0000	\$25.00	16.0000
ME0121326	AIR CYLINDER FOR ODS PUMP PART NO 01A14967-01		ME	1.0000	\$2,511.67	1.0000
ME0121327	CAPSCREW STL1-1/4 SPEL FOR DIAPHRAM CLYINDER PART NO 01A15952 01		ME	5.0000	\$81.18	6.0000
ME0121328	MAGNETIC FLOAT SWITCH PART NO 550610H00 FOR CHEM FEED PUMP		ME	2.0000	\$517.60	1.0000
ME0121400	PUMP GEAR PARKER D09 PART NO 155 0200 09 FOR DBS		ME	0.0000	\$594.02	1.0000
ME0121401	MOTOR HYDRAULIC PARKER 12.9 CU IN / REV FOR DBS PART NO 148 115A 129 AS		ME	1.0000	\$1,780.00	1.0000
ME0121402	PUMP GEAR PARKER D11 FOR DBS PART NO 155 0200 11		ME	1.0000	\$529.00	1.0000
ME0121403	MOTOR HYDRAULIC PARKER 16.4CU IN/REV FOR DBS PART NO 148 115A 164 AS		ME	1.0000	\$1,785.00	1.0000
ME0121404	PUMP GEAR PARKER D17 FOR DBS PART 155 0200 17		ME	1.0000	\$578.00	1.0000
ME0121405	MOTOR HYDRAULIC PARKER 24.1CU IN/REV FOR DBS PART NO 148 115A 054 AS		ME	1.0000	\$2,120.00	1.0000
ME0121406	MOTOR HYDRAULIC PARKER 5.4CU IN/REV FOR DBS PART NO 148 115A 054 AS		ME	1.0000	\$1,644.00	1.0000
ME0121407	GEARBEARING 42IN PD INTERNAL HARDEN FOR DBS PART NO 138 0200 042MH		ME	1.0000	\$9,308.00	1.0000
ME0121408	GEAR BOX FAIRFIELD S7A 95 1 FLANGED FOR DBS PART NO 151 2000 095		ME	1.0000	\$8,482.00	1.0000
ME0121409	GEAR BOX FAIRFIELD S10A 124 1 FOR DBS PART 151 2000 124		ME	1.0000	\$14,135.00	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0121410	PINION 15T 2DP MODIFIED ADD HARDEN FOR DBS PART NO 143 PG082005000		ME	1.0000	\$1,456.00	1.0000
ME0121411	PINION 17T 2DP 50 PERCENT MOD ADD FOR DBS PART NO 143 0017MH 2		ME	1.0000	\$2,192.00	1.0000
ME012143	MOTOR HYDRAULIC PARKER 16 4CU IN/REV FOR DBS PART NO 148 115A 164 AS		ME	0.0000	\$.00	0.0000
ME0122001	PROBE RTD TEMP #806672030 NORTH BLOWER	80667230	ME	2.0000	\$195.00	1.0000
ME0124100	5 TOOTH STANDARD CUTTER 31001 0005 FB MUFFIN MONSTER FOR SERIAL 6912		ME	0.0000	\$45.85	18.0000
ME0124101	11 TOOTH CAM CUTTER FOR MUFFIN MONSTER SERIAL 6812 31017 0011FB	310170011FB	ME	36.0000	\$45.85	18.0000
ME0124102	SPACER SHIM FOR MUFFIN MONSTER 6912 30026 FB / E	691230026 FB / E	ME	40.0000	\$12.96	2.0000
ME0124103	SPACER FOR MUFFIN MONSTER SERIAL 6912 30024 FB / E	30024 FB / E	ME	36.0000	\$14.43	36.0000
ME0124104	CLEAN OUT COVER GASKET FOR MUFFINR MONSTER SERIAL 6912 30041	30041	ME	4.0000	\$4.12	2.0000
ME0124105	BOTTOM COVER GASKET FOR MUFFIN MONSTER SERIAL 6912 30014		ME	2.0000	\$7.20	0.0000
ME0124106	11 TOOTH STANDARD CUTTER FOR MAIN GRINDER SERIAL 19478 40071-0011	40071-0011	ME	0.0000	\$133.75	39.0000
ME0124107	SPACER FOR MAIN GRINDER SERIAL 19478 PART NO 40025	40025	ME	25.0000	\$36.51	39.0000
ME0124108	CLEAN OUT COVER GASKET FOR MUFFIN MONSTER SERIAL 19478 50041	50041	ME	2.0000	\$15.15	2.0000
ME0124109	BOTTOM COVER GASKET FOR MUFFIN MONSTER SERIAL 19478 40014	40014	ME	2.0000	\$15.08	2.0000
ME0124110	SHAFT DRIVE 18IN FOR MAIN GRINDER PART NO 40018 0001 018		ME	1.0000	\$951.69	1.0000
ME0124111	SHAFT DRIVEN 18IN MAIN GRINDER PART NO 40018 0002 018		ME	0.0000	\$937.27	1.0000
ME0124112	END HOUSING TOP PART NO 40177 0001 FOR MAIN GRINDER SERIAL NO 19478		ME	0.0000	\$1,533.50	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0124113	END HOUSING BOTTOM FOR MAIN GRINDER PART NO 40177 0003 SERIAL NO 19478	40177-0003	ME	0.0000	\$1,533.50	1.0000
ME0124114	COVER BOTTOM FOR MAIN GRINDER PART NO 40027 SERIAL NO 19478	40027	ME	0.0000	\$307.51	1.0000
ME0124115	COVER TOP FOR MAIN GRINDER PART NO 40015 SERIAL NO 19478		ME	0.0000	\$956.54	1.0000
ME0124116	PLATE SEAL SUPPORT FOR MIAN GRINDER PART NO 40015 001 SERIAL NO 19478		ME	0.0000	\$52.78	2.0000
ME0124117	SEAL ASSEMBLY FOR MAIN GRINDER PART NO A40020 TB SERIAL NO 19478		ME	0.0000	\$1,135.22	4.0000
ME0124118	OIL SEAL CUTTER DRIVE SHAFT FOR MIOAN GRINDER PART NO 40048 SERIAL NO 19478		ME	0.0000	\$29.31	1.0000
ME0124119	SIDE RAIL SLOTTED FOR MAIN GRINDER PART NO 41080 0018 SERIAL NO 19478		ME	0.0000	\$1,280.58	2.0000
ME0124120	SPUR GEAR 23 TEETH FOR MAIN GRINDER PART NO 40019 001 SERIAL NO 19478		ME	0.0000	\$296.38	1.0000
ME0124121	SPUR GEAR 31 TEETH FOR MAIN GRINDER PART NO 40021 0001 SERIAL NO 19478		ME	0.0000	\$449.89	1.0000
ME0124122	GASKET SIDE RAIL FOR MAIN GRINDER PART NO 40055 SERIAL NO 19478		ME	0.0000	\$6.16	4.0000
ME0124300	GASKET FOR MUFFIN MONSTER TOP OR BOTTOM PART NO 30014		ME	2.0000	\$7.20	2.0000
ME0124301	OIL SEAL FOR MUFFIN MONSTER PART NO 30048		ME	1.0000	\$11.69	1.0000
ME0124302	GASKET SIDERAIL FOR MUFFIN MONSTER PART NO 30055		ME	4.0000	\$2.06	4.0000
ME0124303	RETAINING RING FOR MUFFIN MONSTER PART NO 30109		ME	2.0000	\$3.04	2.0000
ME0124304	RETAINING RING FOR MUFFIN MONSTER PART NO 30110		ME	3.0000	\$1.64	3.0000
ME0124305	FLANGE GASKET 12IN FOR MUFFIN MONSTER PART NO 30040 0612		ME	0.0000	\$28.83	2.0000
ME0124306	CLEANOUT COVER GASKET FOR MUFFIN MONSTER PART NO 30041		ME	0.0000	\$4.12	2.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0124307	TOP SEAL ASSY WITH O RINGS FOR MUFFIN MONSTER PART NO 30053 TB SS T		ME	2.0000	\$519.12	2.0000
ME0124308	BOTTOM SEAL ASSY WITH O RINGS FOR MUFFIN MONSTER PART NO 30053 TB SS B		ME	2.0000	\$519.12	2.0000
ME0124309	INSERT ASSY WITH BEARING AND O RINGS FOR MUFFIN MONSTER PART NO 31036 SS B		ME	1.0000	\$143.94	4.0000
ME0124310	SPACER FOR MUFFIN MONSTER PART NO 30073 AH		ME	36.0000	\$14.43	36.0000
ME0124311	CAM CUTTER 11 FOR MUFFIN MONSTER PART NO 30070 0011 AH		ME	35.0000	\$45.85	36.0000
ME0124312	SHIM FOR MUFFIN MONSTER PART NO 31107 FB		ME	2.0000	\$11.58	2.0000
ME0125001	DISTRIBUTOR PASS ONE ZONE ONE END AREATION 3 SANITAIRE PROJECT 01 4947S		ME	3.0000	\$305.00	2.0000
ME0125002	DISTRUBTOR PASS ONE ZONE TWO MIDDLE AREATION NO 3 SANITAIRE PROJECT 01 4947S		ME	2.0000	\$305.00	2.0000
ME0125003	DISTRBUTOR PASS ONE ZONE THREE END AREATION THREE SANITAIRE PROJECT 01 4947S		ME	2.0000	\$295.00	1.0000
ME0125004	DISTRBUTOR PASS TWO ZONE ONE FOR AERATION THREE SANITAIRE PROJECT 01 4947S		ME	6.0000	\$245.00	2.0000
ME0125005	DISTRIBUTOR PASS TWO ZONE 2 MIDDLE FOR AREATION THREE SANITAIRE PROJECT 01 4947S		ME	2.0000	\$235.00	1.0000
ME0125007	DISTRIBUTOR PASS THREE ZONE ONE END AERATION THREE SANITAIRE PROJECT 01 4947S		ME	3.0000	\$200.00	2.0000
ME0125009	DISTRIBUTOR PASS FOUR ZONE ONE END AREATION THREE SANITAIRE PROJECT 01 4947S		ME	2.0000	\$200.00	1.0000
ME0125010	DISTRIBUTOR PASS FOUR ZONE TWO MIDDLE AREATION THREE SANITAIRE PROJECT 01 4947S		ME	3.0000	\$200.00	2.0000
ME0125011	DISTRIBUTOR PASS FOUR ZONE THREE END AREATION THREE SANITAIRE PROJECT 01 4947S		ME	3.0000	\$200.00	2.0000
ME0125012	24IN STRUT 304SS AREATION THREE SANITAIRE PROJECT 01 4947S		ME	15.0000	\$25.00	12.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0125013	DISTRUBTOR GUIDE SUPPORT 1/2 IN 304SS AREATION THREE SANITAIRE PROJECT 01 4947S		ME	24.0000	\$53.00	15.0000
ME0125014	DITRIBUTOR GUIDE SUPPORT 5/16IN 304SS FOR AREATION THREE SANITAIRE PROJECT 01 4947S		ME	25.0000	\$19.00	15.0000
ME0125015	HEADER REPAIR KIT 4IN FOR AREATION THREE SANITAIRE PROJECT 01 4947S		ME	0.0000	\$65.00	10.0000
ME0125016	MEMBRANE DIFFUSER 9IN DISCPART NO 2261 WE9 FOR AREATION THREE SANITAIRE PROJECT		ME	1000.0000	\$4.50	50.0000
ME0125018	CAP END 4IN SEWER SIZE PART NO 4SEW CAP FOR AREATION TANK		ME	231.0000	\$2.70	10.0000
ME0125301	CARTRIDGE CLARK REPLACEMENT MEMBRANE FOR SENSOR D.O. METER AERATION		ME	0.0000	\$202.52	0.0000
ME0125302	SUNSHIELD FOR FINAL D O METER PART NO LP SUN02		ME	4.0000	\$115.20	1.0000
ME0125303	OXYGEN SENSOR FOR FINAL D O METER PART 085G002		ME	4.0000	\$183.00	2.0000
ME0126300	THRUST BEARING 5310 MG DOUBLE ROW PART NO S1030 FOR GORMAN RUPP MODEL 16A2-G AT S DRAINAGE PUMP / WEST RAS		ME	0.0000	\$150.10	1.0000
ME0126301	BEARING AXIAL PART NO S1066 RSJEM C3 FOR GORMAN RUPP MODEL 16A2-G FOR S DRAINAGE PUMP / WEST RAS		ME	0.0000	\$59.00	1.0000
ME0126302	SHEAVE HEAVY DUTY PART NO 3V08000D3GR FOR GORMAN RUPP MODEL 16A2-G AT S DRAINAGE PUMP WEST RAS		ME	2.0000	\$104.00	1.0000
ME0126303	MECHHANICAL SEAL GORMAN RUPP PART NO GS-1500 FOR GORMAN RUPP MODEL 16A2-G FOR S DRAINAGE PUMP / WEST RAS		ME	0.0000	\$73.00	1.0000
ME0126304	SHEAVE BUSHING PART NO 2411311575 FOR MODEL 16A2-G FOR S DRAINAGE PUMP		ME	2.0000	\$37.00	1.0000
ME0127300	ROLLER AND CASING ASSEMBLY 1082 101 A FOR 27TH AND CHASE	1082-101-A	ME	0.0000	\$612.14	2.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0127301	PIN MOUNTING FOR COG BARSCREEN 2 AT 27TH AND CHASE 1082 103 004		ME	0.0000	\$87.41	2.0000
ME0127302	ADAPTER WITH COUPLING AND SPIDER FOR BARSCREEN 1 THRU 4 PUMP BLOWER BLDG PART NO AM213		ME	0.0000	\$933.92	1.0000
ME0127307	COG WHEEL N M 11T FOR 27TH AND CHASE BARSCREEN PART NO 1082 028 001	1082 028 001	ME	0.0000	\$270.85	1.0000
ME0127308	COG WHEEL HUB FOR 27TH AND CHASE BARSCREEN PART NO 1082 028 010	1082 028 010	ME	0.0000	\$856.08	1.0000
ME0127309	COG WHEEL HARDWARE FOR 27TH AND CHASE PART NO 1082 HARDWARE	1082 HARDWARE	ME	2.0000	\$14.80	1.0000
ME0127311	COG WHEEL PART NO 1082-026-001 FOR 27TH AND CHASE	1082-026-001	ME	2.0000	\$306.00	1.0000
ME0128300	PUMP ABS MODEL NO XFP100C- CB 1.5 1 PE28/4WC 230/1/60 VOLTS FOR BLAINE STREET AND HOBART STREET LIFT STATIONS		ME	1.0000	\$4,362.00	1.0000
ME0128301	START KIT M28 AFP1041 4 PART NO M28 4W FOR HOBART LIFT STATION		ME	2.0000	\$376.00	2.0000
ME0129300	WEAR PLATE FOR EAST/ WEST GRIT PUMP PART NO 24021E		ME	3.0000	\$1,688.31	1.0000
ME0130300	FLOAT ASSY X PROOF PUMP STOP SWITCH P/N 074-217-74(27+) FOR SOUTH ACCUMULATOR		ME	0.0000	\$1,027.38	1.0000
ME0130301	FLOAT SWITCH ASSY X PROOF PUMP START SWITCH P/N 074-217-74 (28+)		ME	0.0000	\$1,033.85	1.0000
ME0130302	FLOAT SWITCH ASSY X PROOF LOW LEVEL SWITCH P/N 074-217-74-(29 +) FOR SOUTH ACCUMULATOR		ME	0.0000	\$1,040.31	1.0000
ME0130303	FLOAT SWITCH STEM MOUNT PER SET SUMP TANK P/N 074-210-74 FOR ACCUMULATOR		ME	1.0000	\$363.08	1.0000
ME0130304	SUMP STRAINER P/N 018-152-18 FOR SOUTH ACCUMULATOR		ME	25.0000	\$23.56	1.0000
ME0130305	SUMP TANK NACCESS COVER SEAL P/N 045-053-45 FOR SOUTH ACCUMULATOR		ME	2.0000	\$57.23	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0130306	PRESSURE VESSEL ACCESS COVER SEAL P/N 043-032-43 FOR SOUTH ACCUMULATOR		ME	4.0000	\$61.15	1.0000
ME0131300	PACKING RING 262/35 K41 80 X 108 14	0301PKPRK126203500OH0K8	ME	0.0000	\$128.00	0.0000
ME0131301	PLUG INSHAFT PIN 62/35 1.4057	309SBOL60603500XXXXX	ME	0.0000	\$48.50	0.0000
ME0131302	SPLASH RING 62/35NBR	0310RSPF006203500XXXXX	ME	0.0000	\$57.00	0.0000
ME0131303	COUPLING ROD PIN 60/35 L5	0402KBOL506003500XXXXX	ME	0.0000	\$91.00	0.0000
ME0131304	GUIDE BUSH 60/35 1.7131	0403FBUL706003500XXXXX	ME	0.0000	\$38.50	0.0000
ME0131305	UNIVERSIAL JOINT SLEEVE 60/35NBR	0405MANF006003500XXXXX	ME	0.0000	\$91.00	0.0000
ME0131306	HOLDING BAND 60/35 A304 V214 115 X3/4	0406HBDA506003500XV214	ME	0.0000	\$16.50	0.0000
ME0131307	HOLDING BAN 60/35 A304 V211 76 X 3/4	0407HBDA506003500XV211	ME	0.0000	\$14.00	0.0000
ME0131308	HOLDING BAND 60/35 A316TI V414 115 X 3/4	0411HBDA7060035XV414	ME	0.0000	\$36.00	0.0000
ME0131309	CASING GASKET 60/35 SIL C4400 126 X 165 X 1	0501DSGM06003500AQ5M6	ME	0.0000	\$11.00	0.0000
ME0131310	SEALING RING G3/4 27 X 32 2mm DIN 7603Sil C4400	0517RDIM0G03400B70603	ME	0.0000	\$1.00	0.0000
ME0131311	ROTOR 60/70-6L AISI D6 ANTCOR	0600ROTC60600700AN06BX	ME	0.0000	\$4,575.00	0.0000
ME0131312	STATOR 60/70-6L NBR TSE	0601STAF00600700ANTX00	ME	0.0000	\$.00	0.0000
ME0131313	O RING 20 X 1.5 NBR	0651ROF00150B00000000	ME	0.0000	\$5.00	0.0000
ME0131314	SEALING RING G3/4 27 X32 2mm DIN 7603 SiL C4400	0706RDIM0G03400B707603	ME	0.0000	\$2.00	0.0000
ME0132002	SHAFT WITH KEY STOCK FOR BACKWASH TRANSFER PUMP SOUTH MUD WELL PUMP PART NO 951622 30		ME	1.0000	\$1,455.00	1.0000
ME0132003	PACKING SLEEVE PART NO 387329-00		ME	1.0000	\$753.00	1.0000
ME0132004	LINE AND THRUST BEARING PART NO 040701-00		ME	2.0000	\$272.00	2.0000
ME0132005	PACKING GLAND PART NO 40374-00		ME	1.0000	\$1,052.00	1.0000
ME0132006	SEAL CAGE PART NO 801946-97		ME	1.0000	\$177.00	1.0000
ME0132007	PACKING SET PART NO 801723-67		ME	1.0000	\$59.00	1.0000
ME0132008	CASING GASKET PART NO 965891-03		ME	3.0000	\$128.00	2.0000

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Stock Number	Description F	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0132009	CASING HANDHOLE COVER GASKET PART NO 387050-01		ME	2.0000	\$48.50	1.0000
ME0132010	SUCTION HANDHOLE COVER GASKET PART NO 025056-00		ME	2.0000	\$43.50	1.0000
ME0132011	LINE BEARING COVER GASKET		ME	0.0000	\$42.00	1.0000
ME0132100	IMPELLER HAYWARD GORDON FOR DIGESTOR CONTROL HOUSE PART NO 2026449901	FOR DIGESTOR CONTROL HOUSE		1.0000	\$6,050.80	1.0000
ME0132101	O RING FOR HAYWOOD GORDON PART NO 50623128		ME	0.0000	\$.00	1.0000
ME0132102	O RING FOR HAYWARD GORDON PART NO 50623260		ME	2.0000	\$3.60	1.0000
ME0132103	O RING FOR HAYWARD GORDON PART NO 5062376		ME	2.0000	\$5.70	1.0000
ME0132104	O RING FOR HAYWARD GORDON PART NO 50623277		ME	2.0000	\$6.40	1.0000
ME0132105	CAPSCREW FOR HAYWARD GORDON PART NO 73010045		ME	2.0000	\$37.70	1.0000
ME0133300	CASE GASKET PART NO 42742A FOR GRIT PUMP		ME	4.0000	\$81.90	1.0000
ME0133301	SUCTION PIECE FOR GRIT PUMP PART NO 15182F		ME	2.0000	\$2,892.25	1.0000
ME0133302	VOLUTE CASE FOR GRIT PUMP PART NO 17415N		ME	2.0000	\$8,135.01	0.0000
ME0134300	COUPLING FOR 2ND STAGE EF SCREW PUMP PART NO F / C202 BORED TO 2.354 X 5/8 KWY ITEM NO 99999999		ME	1.0000	\$312.03	1.0000
ME0134301	BOLT ACCY SET F202 ITEM NO 00511534 FOR 2ND STAGE EF SCREW PUMP		ME	0.0000	\$31.15	1.0000
ME0134302	COUPLING RUPEXFOR SEC STAGE EF SCREWPUMPS 1, 3, 5 PART NO TBD		ME	1.0000	\$11,018.00	1.0000
ME0134303	BUFFERS (1 SET) FOR RUPEX COUPLING 12 PIECES PER SET SEC STAGE EF SCREW PUMPS 1,3,5 PART NO FFA000000500085		ME	0.0000	\$4,858.00	1.0000
ME0134304	PINION OR SEC STAGE EF SCREW PUMPS 1,3 ,5 PART NO TBD80967		ME	1.0000	\$4,243.00	1.0000
ME0135001	FOLLOWER ROLLER SHAFT FOR C BARSCREEN PART NO 01101198-01-503-G01	01101198-01-503-G01	ME	1.0000	\$3,669.29	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0135002	FOLLOWER SUPPORT RIGHT FOR BARSCREEN PART NO 01101198-01-505-G01	01101198-01-505-G01	ME	1.0000	\$3,209.19	1.0000
ME0135003	RAKE ARM FOR BARSCREEN PART NO 0101198-01-508-G01	01101198-01-508-G01	ME	2.0000	\$4,359.44	2.0000
ME0135004	RAKE FOR BARSCREEN PART NO 01101189-01-509-G01	0101198-01-509-G01	ME	1.0000	\$3,439.24	1.0000
ME0135006	DRIVE SHAFT FOR BARSCREEN 01101198-01-504-G01	01101198-01-504-01	ME	1.0000	\$4,589.49	1.0000
ME0135007	GEAR REDUCER ONLY TYPE SA87AM184-KS FOR BARSCREEN PART NO 01198-01-511G99	01198-01-511G99	ME	1.0000	\$5,634.94	1.0000
ME0135008	ADAPTER FOR REUCER FOR BARSCREEN		ME	0.0000	\$980.94	1.0000
ME0135009	FOLLOWER ROLLER SUPPORT LEFT FOR BARSCREEN PART NO 0110198-01-506-G01	0110198-01-506-G01	ME	1.0000	\$3,209.19	1.0000
ME0135010	CAM ROLLER FOR DRIVE SHAFT ON BARSCREEN PART NO 58429-H01	58429-H01	ME	6.0000	\$137.50	2.0000
ME0135011	LUB SPACER FOR BARSCREEN PART NO 58430-H02	58430-H02	ME	2.0000	\$664.84	2.0000
ME0135012	RAKE TEETH FOR BAR SCREEN PART NO 01198 01 510H01		ME	2.0000	\$2,173.41	2.0000
ME0135013	RAKR TEETH FOR BARSCREEN PART NO 01198 01 510H02		ME	2.0000	\$2,173.41	2.0000
ME0135015	SPACER FOR BARSCREEN #3 PART NO 58431H02		ME	4.0000	\$150.63	1.0000
ME0135016	RETAINING RING FOR BARSCREEN PART NO 62892H06		ME	4.0000	\$15.65	1.0000
ME0202021	VALVE CHECK COMPRESSOR #049905	049905	ME	4.0000	\$43.13	1.0000
ME0202022	STRAINER COMPRESSOR #241771	241771	ME	2.0000	\$33.00	1.0000
ME0202023	STRAINER KIT COMPRESSOR 3241772	241772	ME	8.0000	\$16.86	1.0000
ME0202026	WATER SLINGER BELL GOSSETT PART NO P77295 / 140-040 BOILER		ME	0.0000	\$.00	2.0000
ME0202029	PUMP WATSON SPX25 WITH 2 STAGE GEARING 62 5 RPM MAX SPEED NEMA 140TC MOTOR FLANGE PUMP SUPPORT GALVANIZED STEEL POLYPROPYLENE INSERT 1IN 150ANSI FLANGES ZINC PLATED STEEL EPDM HOSE		ME	1.0000	\$7,586.00	1.0000

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ME0202032	PUMP BELL GOSSETT ENTIRE ASSMEMBLY PART NO 12210 FOR BOILER NO 3		МЕ	1.0000	\$605.64	1.0000
ME0202033	REPAIR KIT FOR MARCH PUMP 156 031 001	3	ME	1.0000	\$873.79	1.0000
ME0202034	IMPELLER FOR MARCH PUMP MFG PART NO 0156 004 0200		ME	1.0000	\$560.87	1.0000
ME0202035	PUMP HAYWARD GORDON SERIAL #283407-2;XCS5-A CONTROL HOUSE #4	#283407-2;XCS5-A CONTROL		1.0000	\$21,393.00	1.0000
ME0202036	BEARING FAFNIR III KRR WITH COLLAR FOR BELL & GOSSET DIGESTER HEATED WATER PUMP MODEL 6X6X12L		ME	4.0000	\$91.65	1.0000
ME0202037	BEARING HOUSING P77171 FOR BELL & GOSSETT DIGESTER HEATED WATER PUMP MODEL 6X6X12L		ME	0.0000	\$644.00	1.0000
ME0202038	GASKET VOLUTE P80752 FOR BELL & GOSSET DIGESTER HEATED WATER PUMP MODEL 6X6X12L		ME	10.0000	\$27.60	1.0000
ME0202039	BEARING HOUSING GASKET P80736 FOR BELL & GOSSETT DIGESTER HEATED WATER PUMP MODEL 6X6X12L		ME	4.0000	\$13.00	1.0000
ME0202043	SHAFT BELL GOSSETT VSC-9.875 BF LHR SIXE 6X6X12L		ME	1.0000	\$995.00	1.0000
ME0202050	AIR COMPRESSOR FOR LIFT STATION CONTROL PANEL 5Z348		ME	2.0000	\$201.83	1.0000
ME0202051	AIR COMPRESSOR INGRAM MODEL HR10WB3 FOR MARQUETTE LIFT STATION		ME	3.0000	\$128.00	1.0000
ME0205100	WRAPFLEX 50R HRB HUB PART NO 0359836 FOR A40 AND B40 PUMPS		ME	4.0000	\$155.30	1.0000
ME0205101	WRAPFLEX 50R NYLON COVER PART NO 0436992 FOR A40 AND B40 PUMPS		ME	1.0000	\$80.02	1.0000
ME0205102	WRAPFLEX 50R STD ELEMENT PART NO 0789011 FOR A40 AND B40		ME	1.0000	\$198.52	1.0000
ME0205103	BORE 3.375 SF STD KW FOR MOTOR A40 AND B40 PUMPS		ME	1.0000	\$146.43	1.0000
ME0205104	BORE 2.750 SF STD KW FOR GEAR BOX A40 ABD B40 PUMPS		ME	1.0000	\$116.93	1.0000

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Stock Number	Description Part	t No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0300300	PUMP MOTOR ASSEMBLIES FOR STA RITE MAX E GLASS MODEL P2RA5D180L FOR AUTO SAMPLER		ME	1.0000	\$615.00	1.0000
ME0300301	GEARMOTOR GEARBOX WITH MOTOR SEEPEX CN 805265 70 6L 805265DRI INCLUDES PINION AND GASKET FOR MOUNTING		ME	0.0000	\$3,650.90	1.0000
ME0301300	PUMP HOSE EPDM #25075 CHEM 2507 BLDG	075	ME	3.0000	\$328.80	1.0000
ME0301301	HOSE LUBRICANT #500143001 500° CHEM.BLDG	0143001	ME	2.0000	\$69.65	1.0000
ME0301302	FLANGE #525268005 CHEM BLDG 5252 FOR WATSON MARLOW	5268005	ME	1.0000	\$103.60	2.0000
ME0301303	INSERT #525317005 CHEM BLDG 5253	317005	ME	2.0000	\$124.00	2.0000
ME0301304	BEARING OUTER #525112000 525' CHEM BLDG	5112000	ME	2.0000	\$34.40	1.0000
ME0301305	BEARING INNER #525111000 CHEM 525' BLDG	5111000	ME	2.0000	\$101.00	1.0000
ME0301306	JOINT RING #525113000 CHEM 525 ⁻ BLDG	5113000	ME	2.0000	\$28.20	1.0000
ME0301307	SEAL OIL #525114000 CHEM BLDG 525	5114000	ME	2.0000	\$15.30	1.0000
ME0301308	BEARING COVER O RING 525° #525115000 CHEM BLDG	5115000	ME	2.0000	\$3.80	1.0000
ME0301309	RUBBER BUSHING #525119000 525' CHEM BLDG	5119000	ME	4.0000	\$15.30	2.0000
ME0301310	COVER CORD #525123000 CHEM 525 BLDG	123000	ME	2.0000	\$16.20	1.0000
ME0301311	INSPECTION WINDOW GASKET 525° #525156000 CHEM BLDG	156000	ME	1.0000	\$5.10	1.0000
ME0301312	GASKET SEAL KIT 525S001 CHEM 525S BLDG	SS001	ME	2.0000	\$90.00	1.0000
ME0301315	KIT REPAIR HARDWARE FOR CHEMICAL FEED PUMP		ME	0.0000	\$123.36	2.0000
ME0301316	BREDEL ALUMINUM ROTOR SHOE PART NO 525H001 FOR CHEM FEED PUMP		ME	0.0000	\$219.20	2.0000
ME0301317	PIN BREDEL PUMP SHOE FOR CHEM FEED PUMP		ME	2.0000	\$4.32	4.0000
ME0301318	SHIM SHOE BREDEL PUMP FOR CHEM FEED PUMP		ME	2.0000	\$66.08	4.0000
ME0301353	HOLDING BAND 115X3/4 FOR HBD SEEPEX PUMPS	DA506003500XV214	ME	4.0000	\$31.43	2.0000 C
ME0301354	HOLDING BAND 76X3/4 FOR HBD SEEPEX PUMPS	DA506003500XV411	ME	4.0000	\$20.40	2.0000 C

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Stock Number	Description Pa	art No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0301355	HOLDING BAND 115X3/4 V414 FOR HE SEEPEX PUMPS	BDA706003500XV414	ME	4.0000	\$45.70	1.0000 C
ME0301356	ROTOR FOR SEEPEX PUMPS PART $_{ m R0}$ NO ROTC60600700AN06BX	OTC60600700AN06BX	ME	0.0000	\$4,394.06	1.0000 B
ME0301357	STATOR FOR SEEPEX PUMPS STATOR NO STAF00600700ANTX00	TAF00600700ANTX00	ME	0.0000	\$2,621.34	1.0000
ME0301358	THERMISTOR SENSOR NTC GF1 65 TSE SENSOR RUN DRY PROTECTION PART NO 70-6L SEEPEX PUMP DAF BLDG PART NO TMFM200000000FXXXX		ME	1.0000	\$182.67	1.0000
ME0301359	GUIDE BUSHING ITEM 403 FOR SEEPEX PUMP REF NO 805265 PART NO FBUL706003500XXXL		ME	0.0000	\$71.66	4.0000
ME0301360	COUPLING ROD BUSHING ITEM NO 404 FOR SEEPEX PUMP REF NO 805265 PART NO KBUL706003500XXXX		ME	4.0000	\$376.31	2.0000
ME0301361	HOLDING BAND 60/35 A304 V211 76 X 3/4 ITEM 407 REF NO 805265 FOR SEEPEX PUMP PART NO HBDA506003500XV211		ME	4.0000	\$20.10	2.0000
ME0301362	BOLT METRIC ITEM 512 REF0805265 FOR SEEPEX PUMP		ME	12.0000	\$3.15	8.0000
ME0301363	NUT METRIC ITEM NO 604 REF NO 805265 FOR SEEPEX PUMP		ME	44.0000	\$3.15	12.0000
ME0301364	RETAINING SLEEVE ITEM NO 401 REF NO 805265 FOR SEEPEX PUMP PART NO GKHN306003500XXX		ME	3.0000	\$92.91	2.0000
ME0301365	COUPLING ROD PIN ITEM NO REF NO 805265 FOR SEEPEX PUMP PART NO KBOL 6003500XXX		ME	2.0000	\$144.78	2.0000
ME0301366	UNIVERSAL JOINT SLEEVE FOR SEEPEX PUMP ITEM 405 PART NO MANF006003500XXXXX		ME	2.0000	\$144.78	3.0000
ME0301367	COUPLING ROD ITEM 400 FOR SEEPEX PUMP PART NO KSTC106003500NXXBE		ME	1.0000	\$1,081.29	2.0000
ME0301368	CONNECTION HEAD ITEM 650 FOR SEEPEX		ME	1.0000	\$294.10	1.0000
ME0301369	O RING ITEM 651 FOR SEEPEX		ME	2.0000	\$18.10	2.0000
ME0301370	THREADED SLEEVE / SCREW SCOCKET ITEM 652 FOR SEEPEX		ME	2.0000	\$91.80	1.0000
ME0301371	THERMISTER SENSOR ITEM 653 FOR SEEPEX		ME	1.0000	\$248.80	1.0000

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Stock Number	Description		ommodity ode	Total OH	Item Cost	Order Item Point Class
ME0301372	CLAMP SCREW ITEM 654 FOR SEEPEX	MI	E	1.0000	\$9.10	1.0000
ME0301373	RUBBER RING ITEM 655 FOR SEEPEX	MI	E	1.0000	\$5.10	1.0000
ME0301374	ADAPTER UNIT ITEM 657 FOR SEEPEX	MI	E	1.0000	\$81.60	1.0000
ME0302100	SHAFT RETAINING RING PART NO CP 673 171 177	MI	E	3.0000	\$6.75	1.0000
ME0302300	FLYGT MODEL FP 3102 181 WITH 4IN VOLUTE SUBMERSIBLE CHOPPER PUMP EQUIPPED WITH A 460 VOLT 3 PHASE 60 HZ 5 HP 1750RPM MOTOR 492 IMPELLER 1 X 50 FT LENGHT OF SUBCAB 12AWG 7 SUBMERSIBLE CABLE FLS LEAKAGE DETECTOR EXTERNAL EPOXY COATING FOR 25TH AND BELL	MI	E	1.0000	\$5,965.28	1.0000
ME0302302	SENSOR ENM -10 0.95-1.140FT PART NO 582 88 30 FOR RECYCLE 30-01-01	MI	E	3.0000	\$263.50	2.0000
ME0302303	SENSOR ENM -10 0.95-1.1 65FT PART NO 528 88 31 FOR RECYCLE 30-01-01	MI	E	3.0000	\$288.71	2.0000
ME0303001	CHAMBER ASSY MLO FOR M601 SIEMENS POLYMER SYSTEM PART NO 2345404	. М	E	2.0000	\$2,656.00	1.0000
ME0303002	POWER FRAME ASSY PART NO 1351409 FOR POLYMER DEWATERING BLDG	MI	E	1.0000	\$466.00	1.0000
ME0304200	STARTER KIT FOR MEYERS PUMP MODEL 4V50M6-21. 4IN PUMP 5HP 1750RPM 230 VOLT SINGLE PHASE .KIT INCLUDES START RELAY START CAPACITOR RUN CAPACITOR AND HARDWARE FOR LIFT STATIONS		E	2.0000	\$244.00	1.0000
ME0304300	IMPELLER CWFOR FAIRBANKS MORSE S/N K3K1-054216 4IN 5431E 54TH / TYLER OLD LS PLEASE NOTE TO ALSO IESSUE ME0304302 WHEN PART IS USED		E	2.0000	\$2,693.20	1.0000
ME0304301	IMPELLER CCW FOR FAIRBANKS MORSE S/N K3K1- 054216 4IN 5431B FOR 54TH / TYLER LS PEASE NOTE ISSUE PART ME0304304 WHEN USED	MI	E	1.0000	\$3,163.60	1.0000

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Stock Number	Description	Part No Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0304302	IMPELLER WEAR RING FOR FAIRBANKS MORSE S/N - 054216 4IN 5431B FOR 54TH / TYLER OLD LS	ME	5.0000	\$317.30	1.0000
ME0304303	CAPSCREW FOR FAIRBANKS MORSE S/N K3K1-054216 4IN 5431B 54TH / TYLER OLD LS	ME	0.0000	\$12.00	1.0000
ME0304304	O RING FOR FAIRBANKS MORSE S/N K3K1-054216 4IN 5431B 54TH / TYLER OLD LS	ME	4.0000	\$10.00	1.0000
ME0304305	SEAL MECHCANICAL FOR FAIRBANKS MORSE S/N K3K1-054216 4IN 5431B FOR 54TH / TYLER OLD LS	ME	5.0000	\$52.33	1.0000
ME0305300	LOAD SURE TUBE ELEMENTS 9.6MM ID 2.4MM WALL THICKNESS MARPRENE FOR WM520DUN/REL PUMP PART NO 902.0096.PFQ	ME	9.0000	\$85.80	1.0000
ME0305301	LOAD SURE TUBE ELEMENTS 15.9MM ID 4.8MMWALL THCKNESS MARPRENE FOR WM 720DU/ RE PUMP PART NO 902.0159.PPC	ME	7.0000	\$135.02	2.0000
ME0305303	LEAK DETECTOR 520UN US DUS PART NO 0598131.000 FOR WM 520DUN/REL PUMP	ME	3.0000	\$350.40	1.0000
ME0305304	PUMPHEAD ELEMENT 520/REL 2 BAR / 30PSI FOR 520DUN /REL PART NO 053.1011.EL0	ME	0.0000	\$.00	1.0000
ME0305305	QUICK RELEASE CONNECTOR W/ 1/2IN MNPT-SINGLE SHUTOFF 2PER PUMP W/ INTERFACE TUBING 520 PART NO 48KBAN21FVP	ME	8.0000	\$81.10	2.0000
ME0305306	INTERFACE TUBING W / QUICK RELEASE FEMAL MALE 1MM 10MM ID PVC 2PER PUMP PART NO 159.2191.U84	ME	2.0000	\$225.60	2.0000
ME0305307	INTERFACE TUBING W / QUICK RELEASE FEMALE / MALE 1MM 19MM ID PVC 2 PER PUMP PART NO 069.6171.PFC	ME	4.0000	\$223.37	2.0000
ME0305308	LEAK DETECTOR 720UN US DUN DUS PART NO 079.6131.000	ME	2.0000	\$310.80	1.0000
ME0305309	PUMP HEAD FOR ELEMENT 720RE 2 BAR ELEMENT TUBE	ME	1.0000	\$.00	1.0000
ME0305310	PUMP 720DUN/RE NEMA 4X 360RPM /SINGLE ELEMENT ETL KO90671 PART NO 070.415N.EOA	ME	1.0000	\$.00	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
ME0305311	HOSE ASSEMBLY W3T109490 1-1/2 X 25FT		ME	3.0000	\$27.10	1.0000
ME0305312	PUMP 520DUN/REL 220RPM US 2BAR/30PS[ELEMENT PART NO 005.715N.ELA		ME	0.0000	\$.00	0.0000
ME0305313	MIXER ITT FLYGT SUBMERSBLE MODEL SR4650 (FM RATED) PART NO 4650.490-0706 FOR DEWATERING WET WELL MIXER BLDG30			1.0000	\$14,020.50	1.0000
ME0305314	PUMP FLYGT MODEL NP3153.185 -10" 15HP/ 230/3 FOR 25TH AND CALHOUN		ME	2.0000	\$14,792.00	1.0000
MEO101500	ITEM DELETED SAME AS ME0101500		ME	0.0000	\$.00	0.0000
PL0205044	ADAPTER 1/2 X1/4NPT DEWATERING PRESS	1/2X1/4GG-S	PL	0.0000	\$3.67	1.0000
PL0205045	NIPPLE 1/4IN DEWATERING	1/4FFS	PL	0.0000	\$2.30	0.0000
PL0205046	ELBOW 1/4 TO -4 90 DEGREE DEWATERING PRESS	4-4DTX-S	PL	0.0000	\$6.30	1.0000
PL0208055	FLANGE 3IN THREADED SCH 80 PVC		PL	9.0000	\$20.40	2.0000
PL0208066	VALVE BALL 4IN SCH80 CHEMTROL FOR DISINFECTION		PL	2.0000	\$295.14	2.0000
PL0208132	VALVE 2IN CPVC FLANGED DIAPRAHGM 2793T-020C		PL	0.0000	\$710.00	1.0000
PL0208249	VALVE BALL 2-1/2IN SPEARS PART NO 1822 025 FOR DEWATERING PRESS		PL	1.0000	\$120.40	1.0000
PL0208366	BUSHING REDUCER 3 X 2 SLIP TO THREAD SCH80 PVC		PL	5.0000	\$14.00	2.0000
PL0208367	COUPLING 3IN SLIP SCH80 PVC		PL	7.0000	\$9.05	2.0000
PL0208376	VALVE BALL 2IN HAYWARD TRUE UNION PVC WITH SOCKET WELD ENDS POSTION INDICATOR VITON SEAL HAYWARD EAU-TB-120 STV 120VAC NEMA 3ELECTRIC ACTUATOR FOR FILTER BLDG		PL	4.0000	\$551.00	1.0000
PL0208378	BUSHING SCH80 2IN X 1IN FEM SXS		PL	5.0000	\$4.50	1.0000
PL0208398	NIPPLE SCH 80 PVC 1-1/2 X 2-1/2		PL	4.0000	\$2.27	1.0000
PL0212454	VALVE FOOT BRASS 1IN FOR SAMPLER FINAL		PL	6.0000	\$46.92	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
PL0304036	HOSE HYDRAULIC 3/4 IN X 20 IN F X F ENDS	F4210106-12-12-12-20	PL	1.0000	\$21.00	1.0000 C
PL0304037	HOSE HYDRAULIC 1/2 IN X 16 IN #F38101016-8-8-8-16	F3810106-8-8-8-16	PL	3.0000	\$27.39	0.0000 C
PL0304038	HOSE 1/4 DEWATERING PRESS #F4210604-4-4-12	F421060-4-4-4-12	PL	2.0000	\$24.58	0.0000 C
PL0304050	HOSE FLEXIBLE METAL WITH FITTING 18IN LONG FOR KOMLINE BELT PRESS PART NO. 6396969		PL	1.0000	\$23.00	1.0000
PL0304051	HOSE FLEXIBLE METAL WITH FITTING 24IN LONG FOR KOMLINE BELT PRESS PART NO. 6396967		PL	1.0000	\$26.00	1.0000
PL0304052	HOSE FLEXIBLE METAL WITH FITTING 30IN LONG FOR KOMLINE BELT PRESS PART NO. 6396968		PL	2.0000	\$37.00	1.0000
PL0304054	HOSE FLEXIBLE METAL FITTING 48IN LONG FOR KOMLINE BELT PRESS PART NO.6396970		PL	1.0000	\$35.00	1.0000
PL0304055	TUBING POLY 1/2 OD X 50FT FOR BELT PRESS PART NO 25Q7012-50		PL	0.0000	\$47.00	1.0000
PL0304056	TUBING POLY 1/4 X 25 FOR BELT PRESS PART NO 25Q1511-25		PL	3.0000	\$9.90	1.0000
PL0304057	UNION TEE BRASS 1/4IN TUBE FOR BELT PRESS PART NO 29M3289		PL	12.0000	\$5.40	6.0000
PL0304059	STRAIGHT FITTING POLY 1/2 PART NO 29Q3455-4 FOR BELT PRESS	•	PL	4.0000	\$21.00	2.0000
PL0304060	ELBOW MALE BRASS 1/4T X 1/8PT PART NO 29M3287 FOR BELT PRESS		PL	11.0000	\$5.40	6.0000
PL0304361	UNION 2IN BRASS 125#		PL	2.0000	\$98.93	1.0000
PL0305307	TUBING TYGON TYGOTHANE ESTER BASED POLYURETHANE 7/8 OD X 5/8 ID FOR LMI PUMP		PL	75.4989	\$4.81	10.0000
PL0305309	HOSE 1IN ID CLEAR PVC WATER SUCTION		PL	11.0000	\$1.42	10.0000
PL0305311	HOSE NATURAL RUBBER FOR CHEMICAL BLDG PART Y218712		PL	1.0000	\$128.00	1.0000
PL0305313	HOSE A/AS10 NBR FDA PART NO Y229474 FOR CHEMICAL BLDG		PL	2.0000	\$230.00	1.0000
PL0310001	PIPE PVC 6IN X 20		PL	40.0000	\$8.75	10.0000 C
PL0401311	VALVE ASC0 3/4 120 VOLT EF8210G9		PL	1.0000	\$156.38	1.0000

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
PL0401312	VALVE SOLENOID 1IN 8210G004 120V			1.0000	\$274.29	1.0000
PL0401319	REPAIR KIT FOR DIAPHRAGM PUMP PART NO K58004MB		PL	5.0000	\$150.00	2.0000
PL0401327	VALVE SOLENIOD PARKER 7321GBN88NMC0C11P3 FOR GBT		PL	1.0000	\$605.00	1.0000
PL0401328	VALVE ASCO 8262G002 1/8 N/C DIRECT ACT BRASS 2 WAY 120/60 FOR VERTICAL PUMP / MODIFY BLDG		PL	3.0000	\$41.59	2.0000
PL0401457	SOLENOID FOR CHEM BLDG F/D PART NO 0080813		PL	3.0000	\$495.00	1.0000
PL0404303	CHECK VALVE KIT PVC SPARE PARTS PART NO FLUID DYNAMICS 2120110 FOR DYNA BLEND POLYMER PUMP		PL	2.0000	\$75.00	1.0000
PL0404317	VALVE DUAL CHECK 1/2IN FNPT BRONZE FOR GBT POLYMER SYSTEM PART NO 2ZXW5	2ZXW5	PL	4.0000	\$42.26	2.0000
PL0408307	VALVE VERSA TSG4701 S A120 1IN NPT 110 COIL 4 WAY FOR 4 20 RAW SEWAGE PUMP 2	TSG4702-S-A120	PL	1.0000	\$732.97	0.0000
PL0408310	VALVE VERSA PART NO TSG 2701 H S A 240 FOR A40	TSG2701HSA240	PL	1.0000	\$680.63	1.0000
PL0408313	DELETE SAME AS PL0408305 VALVE VERSA 2 WAY FOR 3 30 PUMP PART NO TSG 2702 S A120	TSG2702SA120	PL	0.0000	\$477.12	0.0000
PL0408315	ADAPTER 1/4 NPT SOLENOID SLEEVE PART NO P1002 11A		PL	11.0000	\$20.00	2.0000
PL0408320	VALVE 6IN FIG 601 FLANGED HENRY PRATT PLU G VALVE HAND WHEEL GEAR OPERATOR SPDT OPEN / CLOSED LIMIT SWITCH ASSY		PL	2.0000	\$982.00	1.0000
PL0408321	VALVE ASSEMBLY CLA VAL PART NO 124 01 3299C 2-1/2IN 124 01A DS 300S A 999999 BBB AMD EZAA FABP02 VERTICAL DOWN DISCHARGE FOR RAW AND GRIT AREA		PL	1.0000	\$1,394.00	1.0000
PL0409001	PILOT ASSEMBLY FOR BRADFORD WHITE WATER HEATER FOR NEW ADMINISTRATION PART NO 239-41323-01		PL	1.0000	\$53.61	0.0000
PL0603327	MANHOLE CONE 36IN X 2FT NO/STPS 4IN WALL #8E116	8E116	PL	0.0000	\$182.00	0.0000 B

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Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
PL0603328	MANHOLE NO BOTTOM 36IN X 2FT NO/B/NOSTPS4IN. WALL 8E114	8E114	PL	0.0000	\$102.00	0.0000 B
PL0603329	MANHOLE BOTTOM 36IN X 2FT W/BOT NO/STP 4IN WALL # 8E119	8E119	PL	0.0000	\$153.00	0.0000 B
PL0603330	MANHOLE INLET BASE 2FT X 2FT W/B/CI NO HL 5IN. WALL #8E104A	8E104A	PL	3.0000	\$128.00	0.0000 C
TL0299326	HOSE FIRE 2-1/2IN ID X 50FT RED 14EXNS PART NO 05FL250X50RL		TL	0.0000	\$352.05	1.0000
TL0999325	SPANNER WRENCH SW15 ALUM FOR PLANT USE		TL	0.0000	\$4.95	0.0000
TL0999327	HOSE DISCHARGE 2IN ID X 50FT 150PSI PART NO 1FYT2		TL	0.0000	\$99.00	1.0000
VA0299319	DELETED SAME AS VA0299315 HOSE LEADER 1IN # 02 31096	02 31096	VA	0.0000	\$.00	0.0000 C
VA0299350	QV 6IN BNC TO PHONE JACK CABLE FOR THE QV CONTROL BOX TO THE GV D1000 PART NO E VID 0002 13		VA	3.0000	\$28.00	1.0000
VE0103136	LAMP SUBMINIATURE WIRE LEADS LENS END		VE	0.0000	\$7.41	0.0000 C
VE0108001	KUBOTA ELEMENT ASSY A/C OUTE ENGINE AIR FILTER PART NO 1G319-11210		VE	9.0000	\$26.97	6.0000
VE0108002	KUBOTA ELEMENT INNER PART NO K7591-82360 ENGINE AIR FILTER		VE	10.0000	\$62.27	6.0000
VE0108003	KUBOTA CARTRIDGE ENGINE OIL FILTER PART NO HH150-32430		VE	6.0000	\$10.78	6.0000
VE0108004	KUBOTA ENGINE O RING FUEL FILTER PART NO 6A320-59950		VE	12.0000	\$.92	6.0000
VE0108005	KUBOTA ENGINE ELEMENT FILTER FUEL PART NO 6A320-59930		VE	9.0000	\$16.37	6.0000
VE0108006	KUBOTA ENGINE O RING FILTER PART NO 6A320-59940		VE	12.0000	\$1.97	6.0000
VE0108007	KUBOTA HYDRAULIC OIL FILTER PART NO HHK32-16770		VE	12.0000	\$47.79	6.0000
VE0108008	KUBOTA HYDRAULIC OIL FILTER CARTRIDGE PART NO HHK70-14070		VE	11.0000	\$23.01	6.0000
VE0108009	KUBOTA KEY STARTER PART NO PL501-58290		VE	6.0000	\$9.62	2.0000
VE0108010	KUBOTA V BELT PART NO 17694-97010		VE	8.0000	\$19.87	0.0000

Stock Number	Description	Part No	Commodity Code	Total OH	Item Cost	Order Item Point Class
VE0108011	KUBOTA TIRE 25 X 10.0 TIRE STEEL WHEEL	0-12 HDWS	VE	2.0000	\$173.75	1.0000

931 record(s) listed

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 7 – DAILY / WEEKLY OPERATOR REPORT SUMMA	RY

			STR	

					MC	ONTHLY OPE	RATING REPO	ORI - COLLEC	TIONS							
Key Perfomance Indicators (KPI)	UNITS		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total	Variance
COLLECTIONS DATA			1				1									
SEWER CLEANING	Linear FT	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	89847
		Actual	346	0	2100	7576	5265	5687	19511	23219	9218	8261	6075	2589	89847	
EWER TELEVISING	Linear FT	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	25161
		Actual	0	0	913	2985	1060	422	3120	1746	4027	5381	5082	425	25161	
SECTIONS CLEANED	#	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	390
		Actual	2	0	8	14	30	22	76	97	43	47	37	14	390	
SECTIONS TELEVISED	#	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	419
		Actual	0	0	5	17	8	3	22	256	26	44	35	3	419	
CATCH BASINS CLEANED	#	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	985
		Actual	0	0	12	71	14	23	191	134	152	244	118	26	985	
MANHOLES INSPECTED	#	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	2051
		Actual	290	122	187	94	26	24	112	55	71	57	242	771	2051	
SUSTOMER COMPLAINTS	#	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	1041
		Actual	59	407	103	53	78	20	42	91	12	63	51	62	1041	
RESPONSE > 1 HOUR	#	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Actual	0	0	0	0	0	0	0	0	0	0	0	0	0	
OVERTIME	Hours	Plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00
		Actual	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00	
DPS/MNT REQUESTS	Hours	Plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Actual	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DITCH MAINTENANCE	Linear FT	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	40
		Actual	0	0	0	40	0	0	0	0	0	0	0	0	40	
DITCH MAINTENANCE HOURS	Hours	Plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Actual	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TREET SWEEPING	Miles	Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	351
		Actual	0	0	62	69	27	62	21	68	40	0	0	0	351	
TREET SWEEPING HOURS	Hours	Plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-704.00
		Actual	0.00	0.00	144.00	88.00	48.00	112.00	72.00	144.00	96.00	0.00	0.00	0.00	704.00	
COMMENTS					_	_	_		_	_			_		_	

Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 8 - CSO GREAT LAKES BASIN CSO PUBLIC NOTIFICATION PLAN, SUBMITTAL: 8/7/2018

REVISED SUBMITTAL: 9/29/2018

Combined Sewer Overflow Great Lakes Basin CSO Public Notification Plan **REVISED Gary Sanitary District** Submittal: August 7, 2018 Revised Submittal: September 29, 2018

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Appendix A Notification Contact List Appendix B Potential Public Access Sites



Introduction

Gary Sanitary District (GSD) has developed this CSO Public Notification Plan in fulfillment of its obligations under the United States Environmental Protection Agency's (USEPA's) Public Notification Requirements for Combined Sewer Overflows (CSOs) to the Great Lakes Basin, effective date February 7, 2018 (the Notification Rule; 40 CFR §122.38).

This CSO Public Notification Plan addresses the 4-hour and 7-day notification requirements of the Notification Rule. The monthly Discharge Monitoring Reports (DMRs) are already and will continue to be issued.

The Notification Rule requires that National Pollutant Discharge Elimination System (NPDES) permittees that have CSO discharges to the Great Lakes Basin must:

- Develop and submit to USEPA a CSO Public Notification Plan by August 7, 2018
 - Incorporate the CSO Public Notification Plan into the permittee's next permit renewal. GSD's NPDES permit expires June 30, 2022
- Implement CSO Public Notification Plan by November 7, 2018
- Submit Annual Report May 1, 2019 and each year thereafter

GSD submitted its plan in accordance with the guidelines on August 7, 2018. The Indiana Department of Environmental Management (IDEM) then responded with comments on August 30, 2018, and this revised plan is being submitted in responding to those comments.

This CSO Public Notification Plan consists of the following sections:

- Section 1 Introduction
- Section 2 CSO Locations and Signage
- Section 3 Notification Requirements Initial (4-hour) and Supplemental (7-day)
- Section 4 Method to Estimate CSO Discharge
- Section 5 Protocols for Annual Notice and Permit Update
- Section 6 Public Comment Received
- Appendix A Notification Contact List
- Appendix B Potential Public Access Sites



CSO Locations and Signage

2.1 CSO Locations and Signage

Figure 2-1 shows locations of GSD's CSOs, none of which discharge to sensitive areas. **Table 2-1** lists GSD's CSO locations and documents photographs of the CSO signage. GSD has 12 permitted CSOs as per its NPDES permit; however, it should be noted that CSO 014 (25th Avenue and Wisconsin Street) is filled with concrete and cannot discharge.

Table 2-1. CSO Locations

NPDES Outfall ID	Location	Signage Photo ID
CSO 004	15th Avenue and Elkhart Street	Photo 2-1
CSO 005	36th Avenue and Broadway West	Photo 2-2
CSO 006	Rhode Island Street at East Interceptor	Photo 2-3
CSO 007	Alley 9 at East Interceptor	Photo 2-4
CSO 008	Polk Street at East Interceptor	Photo 2-5
CSO 009	Pierce Street at East Interceptor	Photo 2-6
CSO 010	Bridge Street at East Interceptor	Photo 2-7
CSO 011	Chase Street at East Interceptor	Photo 2-8
CSO 012	Colfax Street at West Interceptor	Photo 2-9
CSO 013	25th Avenue and Georgia Street	Photo 2-10
CSO 015	32nd Broadway and Alley 1 East	Photo 2-11

CSO signs generally contain the following language:

"Warning: Contact with water may be hazardous. This is a combined sewer overflow. This water can become polluted during or after rain storms or snow melts. If the pipe is flowing on a dry weather day, please call GSD WWTP at (219) 944-1211."

Each sign displays the CSO number as well as GSD's NPDES permit number.

2.2 Protocol for Maintaining Signage

Signs have been posted / have been replaced at all CSOs. Currently the signs are inspected by GSD staff daily and are maintained and repaired as needed.





Photo 2-1. CSO 004 - 15th Avenue and Elkhart Street





Photo 2-2. CSO 005 - 36th Avenue and Broadway West





Photo 2-3. CSO 006 - Rhode Island Street at East Interceptor





Photo 2-4. CSO 007 - Alley 9 at East Interceptor





Photo 2-5. CSO 008 - Polk Street at East Interceptor





Photo 2-6. CSO 009 - Pierce Street at East Interceptor





Photo 2-7. CSO 010 - Bridge Street at East Interceptor





Photo 2-8. CSO 011 - Chase Street at East Interceptor





Photo 2-9. CSO 012 - Colfax Street at West Interceptor





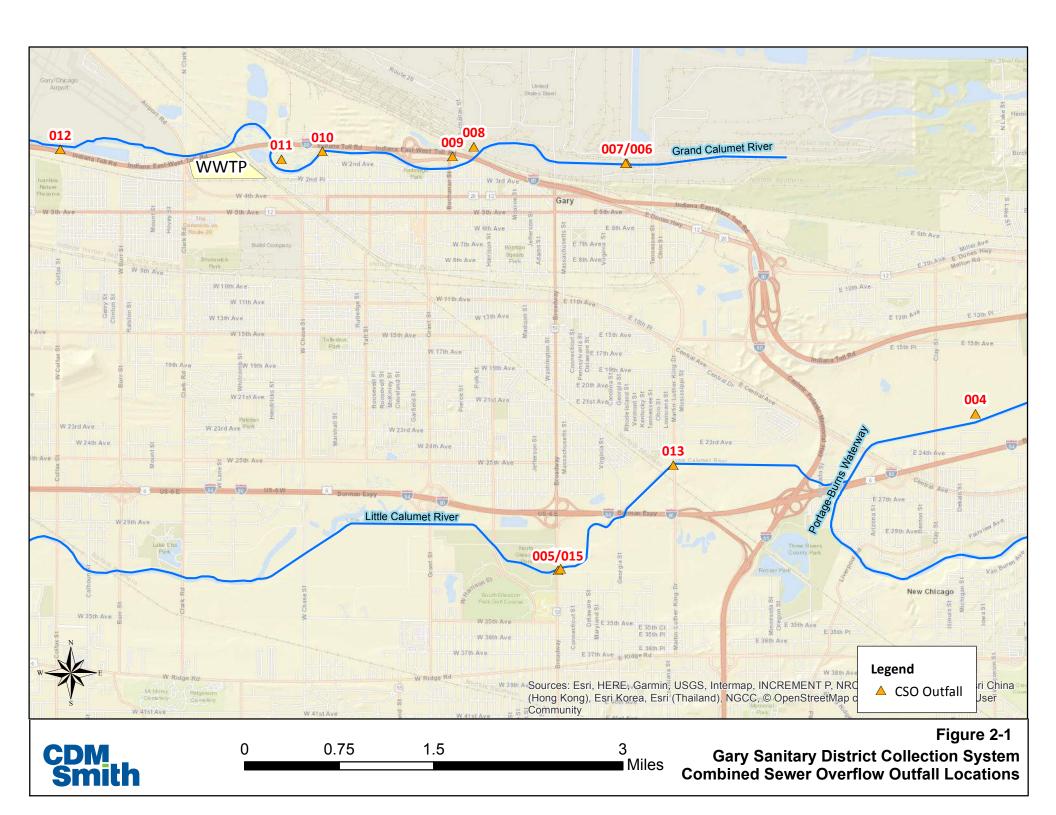
Photo 2-10. CSO 013 - 25th Avenue and Georgia Street





Photo 2-11. CSO 015 - 32nd Broadway and Alley 1 East





Notification Requirements – Initial (4-hour) and Supplemental (7-day)

The requirements of the CSO Notification Rule can be found in 40 CFR §122.38.

This CSO Public Notification Plan addresses the 4-hour and 7-day notification requirements of the Notification Rule. The monthly Discharge Monitoring Reports (DMRs) are already and will continue to be issued.

Currently, GSD notifies the public of a potential for CSO discharge based on if approximately 0.25 inches of rain is predicted in the weather forecast. As per the requirements of the CSO Notification Rule, GSD will augment this notification already being performed to meet the 4-hour and 7-day requirements.

3.1 Initial Notification Requirements (4-hour)

As per the CSO Notification Rule requirements, within four hours after becoming aware that a CSO discharge has occurred, or after completion of physical action needed to limit public health impacts of said CSO discharge, GSD will announce the occurrence of the discharge. Notification will occur via:

- GSD's website: http://garysanitary.com
- Email to the Notification Contact List that CSO information has been posted to GSD's website
- Notice in the legal section of the Gary Crusader newspaper

Appendix A presents detailed information on the Notification Contact List, which includes the Gary Health Department, other affected public entities, and public subscribers. The contents of the notification will include:

- Waterbody that received the discharge
- CSO(s) outfalls that discharged
- Identification of public access areas potentially impacted by the CSO event, if any (See
 Appendix B for potential public access points)
- Date and time of CSO event start (or when GSD became aware to be based on rainfall event start)
 - Approximate time of CSO event end, if known within the 4-hour timeframe, or if it is still ongoing at time of notification



3.2 Supplemental Notification Requirements (7-day)

Within seven days of becoming aware that a CSO discharge has occurred, GSD will notify the Notification Contact List of the occurrence of the discharge event. The notification will include:

- Estimated volume of CSO discharge based on the calibrated model developed as part of GSD's ongoing Long-Term Control Plan (LTCP) efforts (see Section 4 for a detailed description of the method)
- Time when the CSO event ended

3.3 Advanced Notification

For the 4-hour notification requirement, GSD will employ advanced notification. When rainfall forecasts indicate that a rainstorm will exceed 0.25 inches, GSD will notify the Notification Contact List that there is potential for a CSO event to occur. The 7-day report will be used to confirm if the CSO event occurred, and if so, its volume and duration at each outfall.



Method to Estimate CSO Discharge

GSD has developed and calibrated a collection system model as part of its LTCP efforts. This model was reviewed, and calibration approved by USEPA and IDEM in 2011. This model will be used to develop a CSO discharge look-up table to estimate CSO volume discharged at each outfall based on rainfall event characteristics. The methodology entails:

- Simulate CSO discharge at GSD CSO outfalls using the model for a multi-year period to include a wide variety of rainfall event characteristics.
- For each CSO outfall, develop regressions comparing various rainfall statistics and resulting CSO volume discharges and durations, including rainfall characteristics such as event duration versus average intensity, total rainfall depth versus peak intensity, and total rainfall depth versus rainfall duration.
- Based on the information developed above, develop a user-friendly table that will enable GSD staff to quickly and efficiently look up rainfall statistics and estimate the volume of CSO discharge for each CSO outfall as a result of rainfall events confirmed to produce CSO discharges.

The above approach is preferred over the use of the currently available CSO monitoring data to estimate CSO discharge volumes, as individual event monitoring data can be erroneous. Sources of error include uneven weir crest elevations over the length of the weir, highly uncertain weir coefficients used to estimate flow rates, fouling and blockage of level sensors, etc. The calibrated model will provide robust estimates of CSO volume discharge for CSO Public Notification.



Protocols for Annual Notice and Permit Update

5.1 Annual Notice

GSD will issue an annual notice describing CSOs that occurred in the preceding calendar year.

- Annual Notice Contact List:
 - USEPA: NPDES_CSO@epa.gov
 - IDEM: Paul Novak, Chief, Permits Branch, Office of Water Quality pnovak@idem.in.gov
 - Public: See **Appendix A**.
- Annual Notice Contents:
 - Listing of all CSOs that occurred in the preceding year
 - Description of location and receiving water for CSO and if any treatment was provided
 - Date, location, duration, measured or estimated volume, and cause of each CSO
 - Date, location, duration, volume, and cause of each dry weather CSO
 - Summary of available monitoring data for CSOs from the past year
 - Description of potentially-impacted public access areas
 - Representative precipitation data (in total inches, to the nearest 0.1 inch) that resulted in a CSO, if precipitation was the cause of the CSO
 - Permittee contact information
 - Concise summary of:
 - o Implementation of the Nine Minimum Controls
 - o Implementation status of the CSO LTCP
 - Description of key remaining milestones to complete plan
 - Description of average annual number of CSOs anticipated after implementation of the LTCP
- Annual Notice Due Date: May 1 each year, starting May 1, 2019



5.2 Permit Update

GSD's NPDES permit expires June 30, 2022, at which time the approved CSO Public Notification Plan will be made part of the permit renewal.

5.3 Acknowledgments of Future Work

GSD acknowledges the following reminders from IDEM's 8/30/2018 comments:

- Permittees must begin implementation of the Great Lakes Basin (GLB) CSO Public Notification Plan by November 7, 2018. (40 CFR 122.38(a)(2) and (3))
- In May of each year, starting after February 2019, the permittee must provide the required Annual Notice. (40 CFR 122.38(b))
- Future NPDES Permit Application for Renewal must include the submittal of the GLB CSO Public Notification Plan and any noted modifications made to the Plan. (40 CFR 122.21(j)(8)(iii)
- Future NPDES Permits will include new standard conditions which will require implementation of the GLB CSO Public Notification Plans. (40 CFR 122.42(f))
- IDEM is currently conducting a rule-making to incorporate 40 CFR 122.38, 40 CFR 122.21(j)(8)(iii), and 40 CFR 122.42(f) into 327 IAC 5, which is referenced at IDEM's website: https://www.in.gov/idem/legal/2352.htm



Public Comment

GSD is currently working on its CSO LTCP under Consent Decree via which a Public and Regulatory Agency Participation was submitted 5/18/2018 and approved by the USEPA on 6/14/2018. A series of public participation and review meetings has been outlined in that plan. GSD will hold a meeting on the CSO Notification Plan in conjunction with one of those scheduled meetings with the goal of maximizing the audience and receipt of public input.



Appendix A

Notification Contact List

The following entities have been identified as potentially being interested in receiving public notification:

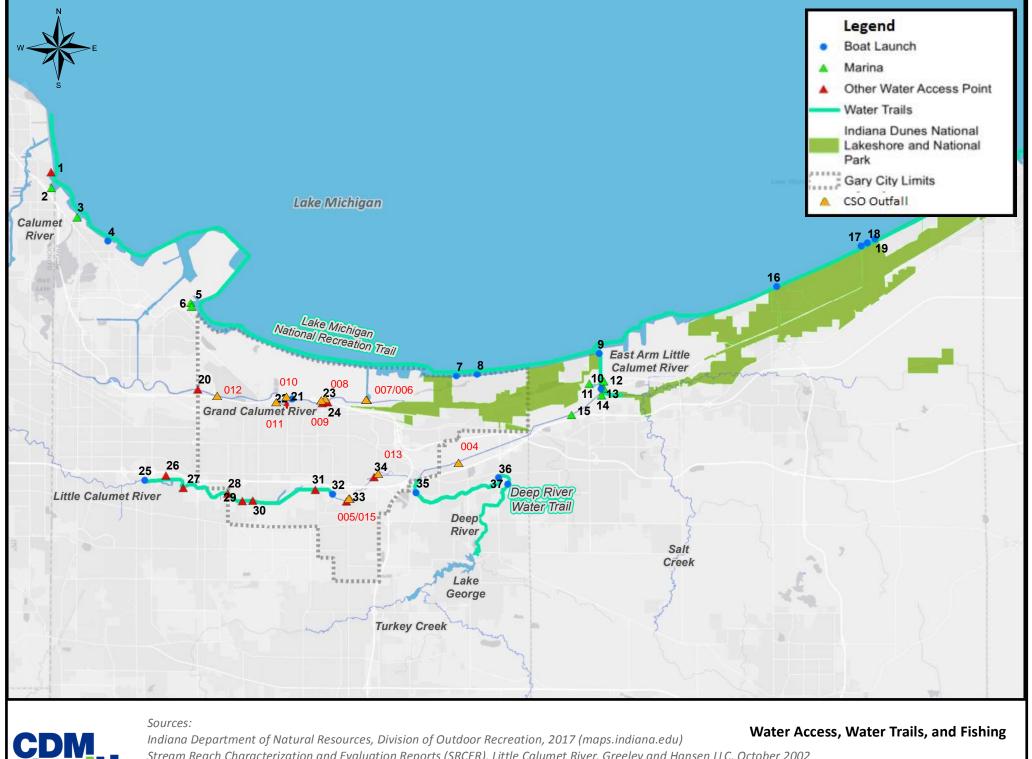
- a. Gary Health Department1145 W 5th Ave, Gary, IN 46402(219) 881-1311
- b. City of Gary Parks/Recreation 839 Broadway S202 Gary, IN 46402 ngeorge@ci.gary.in.us
- c. Lake County Parks and Recreation 8411 E Lincoln Highway Crown Point, IN 46307 info@lakecountyparks.com
- d. Save the Dunes Conservation Fund 444 Barker Road Michigan City, IN 46360 office@savedunes.org



Appendix B

Potential Public Access Sites





Stream Reach Characterization and Evaluation Reports (SRCER), Little Calumet River, Greeley and Hansen LLC, October 2002 Google Earth (earth.google.com)

Reference Number	Site	Access Type	City/Town	Adjacent Waterway
1	Chicago Coast Guard Station	Coast Guard Station	Chicago, IL	Lake Michigan
2	Calumet Yacht Club	Marina	Chicago, IL	Lake Michigan
3	Hammond Yacht Club	Marina/Boat Launch	Hammond, IN	Lake Michigan
4	Whihala Beach	Boat Launch	Whiting, IN	Lake Michigan
5	Indiana Harbor Yacht Club	Marina/Boat Launch	East Chicago, IN	Lake Michigan
6	East Chicago Marina	Marina	East Chicago, IN	Lake Michigan
7	Marquette Park	Boat Launch	Gary, IN	Lake Michigan
8	Marquette Park	Boat Launch	Gary, IN	Lake Michigan
9	Portage Lakefront and Riverwalk	Boat Launch	Portage, IN	Lake Michigan
10	Marquette Yacht Club	Marina	Portage, IN	Little Calumet River
11	Marina Shores Dune Harbor	Marina	Portage, IN	Little Calumet River
12	Portage Public Marina	Marina	Portage, IN	Little Calumet River
13	Portage/Ogden Dunes	Boat Launch	Portage, IN	Little Calumet River
14	Doynes Marina Inc.	Marina	Portage, IN	Little Calumet River
15	South Shore Marina	Marina	Portage, IN	Little Calumet River
16	Porter Beach	Boat Launch	Portage, IN	Lake Michigan
17	Kemil Beach	Boat Launch	Beverly Shores, IN	Lake Michigan
18	Dunbar Beach	Boat Launch	Beverly Shores, IN	Lake Michigan
19	Lake View Beach	Boat Launch	Beverly Shores, IN	Lake Michigan
20	Cline Avenue	Other Water Access Point2	Gary, IN	Grand Calumet River
21	North End Waite Street	Other Water Access Point2	Gary, IN	Grand Calumet River
22	Bridge Street	Boat Launch2	Gary, IN	Grand Calumet River
23	2nd and Buchanan Street	Other Water Access Point2	Gary, IN	Grand Calumet River
24	2nd & Polk Street	Other Water Access Point2	Gary, IN	Grand Calumet River
25	Indiana Welcome Center	Boat Launch	Hammond, IN	Little Calumet River
26	George Carlson Oxbow Park	Other Water Access Point1	Hammond, IN	Little Calumet River
27	Liable Road	Other Water Access Point1	Highland, IN	Little Calumet River
28	Colfax Bridge	Other Water Access Point1	Gary, IN	Little Calumet River
29	Calhoun Street	Other Water Access Point1	Gary, IN	Little Calumet River
30	Wooden Dock	Other Water Access Point1	Gary, IN	Little Calumet River
31	Grant Street	Other Water Access Point1	Gary, IN	Little Calumet River
32	Harrison Street	Boat Launch1	Gary, IN	Little Calumet River



Reference Number	Site	Access Type	City/Town	Adjacent Waterway
33	Fishing Dock	Other Water Access Point1	Gary, IN	Little Calumet River
34	Culvert West of MLK Drive	Other Water Access Point1	Gary, IN	Little Calumet River
35	Liverpool Road	Boat Launch	Lake Station, IN	Deep River
36	Bicentennial Park	Boat Launch	Lake Station, IN	Deep River
37	Riverview Park	Boat Launch	Lake Station, IN	Deep River



Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 9 – RESPON	ENTS DATED 7/26/2019 NS DATED 11/19/2018	8 AND SUBSEQUENT



Memorandum

To: Gary Sanitary District

From: CDM Smith Inc.

Date: January 31, 2019

Subject: Combined Sewer Overflow Operational Plan

Response to USEPA and IDEM's Comments, dated 7/26/2018, and

Subsequent FollowUp Questions, dated 11/19/2018

The United States Environmental Protection Agency (USEPA) and the Indiana Department of Environmental Management (IDEM) submitted comments on Gary Sanitary District's (GSD's) 5/18/2018 Combined Sewer Overflow Operational Plan (CSOOP), dated 7/26/2018. GSD submitted responses to those comments on 8/23/2018, to which USEPA followed up with additional questions on 11/19/2018.

This memorandum documents responses to those comments, all of which have been incorporated into the Annual Update to the CSOOP, dated 1/31/2019.

Section 1.1 of the CSOOP has been revised to acknowledge that this submittal is the 1/31/2019 Annual Update, and that it addresses comments and follow up questions received from USEPA on 7/26/2018 and 11/19/2018. Note that full-page figures have been moved to after the text for ease of reference.

It should also be noted that GSD is in the process of developing its Long Term Control Plan in accordance with its current Consent Decree. As part of this effort, a revised CSO Characterization Report is being submitted to USEPA on 1/31/2019 as well. This CSO Characterization Report has been referenced in this Response to Comment document, and much of the information from that report has been incorporated into the 1/31/2019 CSOOP Annual Update.

Response to USEPA and IDEM's Comments, dated 7/26/2018 and Subsequent FollowUp Questions, dated 11/19/2018 1/31/2019

General Comments and Questions

1. Response to Comment #1:

Section 1.1 was revised to acknowledge that GSD is aware of the requirements for annual updates to the CSOOP.

2. Response to Comment #2:

Section 5.5.8 was revised in its entirety to reflect that GSD is aware of the requirements for development of a Public Notification Rule for CSO Discharges to the Great Lakes. GSD submitted its plan in accordance with the guidelines on 8/7/2018. IDEM then responded with comments on 8/30/2018, and GSD submitted a revised plan on 9/29/2018, incorporating responses to those comments. The CSO Notification Plan is presented in Appendix 6.

Comments and Questions Specific to Portions of GSD's CSOOP

1. Response to Comment #1:

Section 2.1.3 and Table 2-1 have been revised to indicate that GSD provides service to a total of 27 Industrial Users, of which 14 are Significant Industrial Users, and none are Categorical Industrial Users.

2. Response to Comment #2:

Section 2.1.4 was revised to indicate the sewers in the satellite communities are separate sanitary.

3. Response to Comment #3 and 11/19/2018 FollowUp Question:

Section 2.2.3 has been updated to discuss the sewer inspection activities GSD conducted, including length of sewer that was televised. Furthermore, GSD currently has started to develop a sewer asset management program, which includes an evaluation of GSD's current inspection equipment, working with vendors for possible purchase of new equipment, development of a data gathering strategy, development of in-field data collection applications, and an evaluation of facilitating information exchange with other existing software in GSD's system. That project is underway and is scheduled for completion Spring 2019.

4. Response to Comment #4:

Table 2-3 has been revised to include latitude and longitude for each pump station. All pump stations discharge to a forcemain until the forcemain hits a gravity line. Section 2.2.5 has been accordingly annotated.



Response to USEPA and IDEM's Comments, dated 7/26/2018 and Subsequent FollowUp Questions, dated 11/19/2018 1/31/2019

5. Response to Comment #5:

Table 2-4 has been updated to include the information requested in the Consent Decree, and matches the table provided in the CSO Characterization Report (1/31/2019). Figure 2-3 from the CSO Characterization Report (1/31/2019) provides the locations of the CSOs in relation to industrial users and has been added to the CSOOP.

6. Response to Comment #6:

Figure 2-2 has been updated with the current Figure 2-2 from the CSO Characterization Report (1/31/2019), which clearly shows pump stations, regulators, and locations where satellites join GSD's collection system.

7. Response to Comment #7:

Section 2.5 was corrected to indicate 182 cfs (117 MGD).

8. Response to Comment #8:

Section 3.1.2 has been revised to clarify that the text refers to management of the Operations and Maintenance of the WWTP.

9. Response to Comment #9:

Section 3.7.1 was revised to include the following explanation re: CSO data record keeping: GSD utilizes iFIX which is an HMI software to visually display CSO data. CSO flows are calculated by the PLCs in the field and recorded on the Profecy Historian software which is a module to iFIX. PLC records data every thirty (30) seconds and is saved in the Profecy Historian software.

10. Response to Comment #10:

Section 4.7.1 was revised to indicate that GSD's system has approximately 6,005 catch basins. Table 4-1 was added to present the recent history of catch basin cleaning. Section 4.7.2 was revised to indicate that GSD's system has approximately 11,434 manholes. Table 4-2 was added to present the recent history of manhole inspection. And Table 4-3 was added to present the recent history of sewer cleaning and inspection.

11. Response to Comment #11:

Section 4.7.1 was revised to further explain that each year, GSD's Collection Department assigns a map section to a specific crew to inspect catch basins. There are a total of 14 map sections, with all sections being inspected on a 3 year cycle.



Response to USEPA and IDEM's Comments, dated 7/26/2018 and Subsequent FollowUp Questions, dated 11/19/2018 1/31/2019

12. Response to Comment #12:

Section 4.7.2 was revised to indicate that similar to catch basins, each year, GSD's Collection Department assigns a map section to a specific crew to inspect manholes. There are a total of 14 map sections, with all the sections being inspected on a 3 year cycle.

13. Response to Comment #13:

Section 4.8.3 was revised to explain that GSD currently is enhancing its sewer asset management program, which includes an evaluation of GSD's current inspection equipment, working with vendors for possible purchase of new equipment, continual enhancement of its data gathering strategy, modernizing its in-field data collection applications, and an evaluation of facilitating information exchange with other existing software in GSD's system. That project is underway and is scheduled for completion Spring 2019.

14. Response to Comment #14:

Section 5.4.2 was revised to acknowledge that GSD uses WeatherBug to track weather and precipitation.

15. Response to Comment #15:

Section 5.5.5 was revised to acknowledge that GSD inspects its CSOs daily and performs repairs as needed.

16. Response to Comment #16 and 11/19/2018 FollowUp Question:

Section 5.5.6 was revised to further describe the regulator design to manage floatables control. The regulators located along the Grand Calumet River have a double weir system that manages floatables. Each of the downstream weirs is higher in elevation that the upstream weir in the regulator structure and is the control feature on overflows to the Grand Calumet River. The regulators along the Little Calumet River have baffles installed to control floatables.

17. Response to Comment #17:

Section 5.5.8 was revised to reflect GSD's CSO Public Notification Plan (9/29/2018), including the new signs posted at all CSOs including CSO outfall number and NPDES permit number. The CSO Notification Plan is presented in Appendix 6, and a photo of each sign is presented in Appendix 6, Section 2.0. Section 5.5.8.1 was revised to reference Appendix 6 Section 2.0 for these photos.



Response to USEPA and IDEM's Comments, dated 7/26/2018 and Subsequent FollowUp Questions, dated 11/19/2018 1/31/2019

18. Response to Comment #18:

Section 6.6 was added to the CSOOP to describe that GSD is in the process of developing its Long Term Control Plan, which will be the guide for future CSO mitigation activities. The schedule for the LTCP is included in GSD's Consent Decree (effective 3/19/2018). As part of that process, GSD submitted its CSO Characterization Report to USEPA/IDEM 7/17/2018, with a revised version submitted 1/31/2019. CSO Alternatives Screening and Analysis will follow upon receipt of USEPA/IDEM approval of the CSO Characterization Report.

19. Response to Comment #19 and 11/19/2018 FollowUp Question:

Section 6.3 was revised to include a list of lining projects as well as a Army Corps 219-funded project being undertaken by GSD.



Gary Sanitary District

Report Submittal: 5/18/2018

Annual Update: 1/31/2019

Combined Sewer Overflow Operational Plan

APPENDIX 10 – USEPA AND IDEM'S COMMENTS ON GSD'S CSOOP, 7/26/2018
FOLLOW UP EMAIL FROM USEPA, 11/19/2018



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

JUL 2 6 2018

REPLY TO THE ATTENTION OF

WC-15J

CERTIFIED MAIL and ELECTRONIC MAIL 7017 3380 0000 7283 5336 RETURN RECEIPT REQUESTED

Mr. Daniel F. Vicari **Executive Director** Gary Sanitary District 3600 West 3rd Avenue Gary, Indiana 46402 dan@garysan.com

Subject: USEPA and IDEM's comments on Gary Sanitary District's (GSD) Combined Sewer Overflow Operational Plan (CSOOP); U.S. and Indiana v. the City of Gary, IN and

Gary Sanitary District, Case 2:16-cv-00512-PPS

Dear Mr. Vicari:

Enclosed is U.S. Environmental Protection Agency's and Indiana Department of Environmental Management's (IDEM's) response and comments to Gary Sanitary District's (GSD) Combined Sewer Overflow Operational Plan (CSOOP) which GSD submitted to EPA and IDEM (Agencies) on May 18, 2018 pursuant to Paragraph 15 and Appendix 1 of the Consent Decree. Pursuant to Paragraph 103 of the CD, Gary Sanitary District should submit a response to the Agencies' comments within 30 days of receipt of this letter.

If you have any questions or concerns regarding this letter, contact John Jurevis of my staff at (312) 886-1446.

Sincerely,

Patrick F Kuefler, Chief

Water Enforcement and Compliance Assurance

Branch

Enclosure

cc:

Mayor Karen Freeman-Wilson, City of Gary (via email)

Jewell Harris, Jr., Harris Law Firm, P.C. (via email) Nigel Cooney, U.S. Department of Justice (via email)

		*	

EPA and IDEM have developed the following response to GSD's CSOOP.

EPA and IDEM Comments on GSD's May 2018 Combined Sewer Overflow Operational Plan (dated May 18, 2018)

General Comments and Questions

- The CSOOP is a dynamic document, especially throughout the LTCP development process, requiring annual changes to be submitted to the Agencies by January 31 pursuant to Paragraph 15 of the Consent Decree (CD). GSD's NPDES permit also details the updates required over time to the CSOOP. The Agencies would like to ensure GSD is aware of the requirements for updating the CSOOP under the CD as well as GSD's NPDES permit.
- 2. On February 7, 2018, the Public Notification Rule for CSO discharges to the Great Lakes became final. IDEM has reached out to all CSO communities in Indiana where this rule is applicable. The Agencies would like GSD's CSOOP to recognize the new rule, and have a commitment to incorporate their updated (Great Lakes Initiative compliant) Public Notice Plan once developed. Guidance for the new rule is available on IDEM's website. Per the rule, GSD must submit their Public Notice Plan to IDEM by August 7, 2018 and it must be implemented by November 7, 2018.

Comments and Questions Specific to Portions of GSD's CSOOP

1. Comment Regarding Table 2-1

In the table of Industrial Users (IU), GSD indicates whether each IU is significant, but does not include the category or federal regulation for those that are categorical IUs (CIUs)

2. Comment Regarding Section 2.1.4

GSD should indicate the type of sewer system (combined or separate) in each satellite community

3. Comment Regarding Section 2.2.3

GSD should provide more detailed information regarding its sewer inspection activities to date. In particular, how many feet of sewer have been CCTV inspected?

4. Comment Regarding Table 2-3

GSD should identify the GPS coordinates for each pump station and also the discharge disposition of each pump (e.g. to a particular force main, CSO Outfall, storm water outfall, etc.)

5. Comment Regarding Table 2-4

GSD should include information pertaining to the regulators as specified in Appendix I to the CD, Section I.B.2.d. and also identify the tributary IUs to each of the CSO Outfalls

6. Comment Regarding Figure 2-2

GSD should update the map to include pump stations (indicating whether the particular pump station services the Sanitary, Combined, or Storm water systems), clear locations where the satellites join the Collection system, and precise delineation of combined and separate portions of the Collection system.

7. Comment Regarding Section 2.5

It should be noted that a river flow of 182 CFS is approximately 117 MGD, not 2.1 MGD.

8. Comment Regarding Figure 3-1 and Section 3.1.2

GSD should provide more information about how each of the positions in Section 3.1.2 fits into the GSD Organizational Structure shown in Figure 3-1.

9. Comment Regarding Section 3.7

GSD should place higher emphasis in this section on 'Record-keeping practices and reporting procedures that document CSO monitoring and control' as specified in Appendix I to the CD, Section I.C.3. Specifically, greater detail regarding information collection and data management processes and tools should be provided.

10. Comment Regarding Section 4

What is the total number of manholes and catch basins in the GSD system? This information would allow a better gauging of the progress that GSD is making in its manhole inspection and catch basin cleaning programs, including what percentage of the total are cleaned and/or inspected each year.

11. Comment Regarding Section 4.7.1

GSD references an inspection program in Section 4.1; however, no detail is given as to the frequency each catch basin is inspected or how that data is managed and used to schedule 'as necessary' cleaning activities.

12. Comment Regarding Section 4.7.2

GSD mentions a 10 year cycle for manhole inspection and a 3 year cycle for manhole 'flow checks'. Please provide more information regarding how each of these procedures is carried out (e.g. is it with a specific protocol such as NASSCO's MACP)

13. Comment Regarding Section 4.8.3

GSD states that it is 'currently developing' a CCTV program to replace its 'as needed' current CCTV practice. As such, the CSOOP does not contain a schedule for sewer televising/inspection. The Agencies request more information on this program and how it will prioritize inspection activities based on known problem areas, sewer age, and material of construction.

14. Comment Regarding Section 5.4

GSD indicates that it does not use a weather station to monitor weather. It is suggested that GSD use NOAA's free online weather tracking tools to increase its awareness of impending precipitation.

15. Comment Regarding Section 5.5.5

More information should be provided regarding GSD's CSO structure inspection and maintenance practices and the frequencies of those activities.

16. Comment Regarding Section 5.5.6

More information should be provided detailing how the CSO control structures were designed to enhance floatables removal

17. Comment Regarding Section 5.5.8.1

GSD provides an example of a sign at CSO Outfalls. The Agencies believe the individual Outfall numbers should be added to each sign.

18. Comment Regarding Section 6

The Agencies appreciate the discussion of measures that have been taken by GSD to control CSOs and maintain the WWTP and collection system. However, there is no mention in this section of future activities that GSD intends to take.

19. Comment Regarding Section 6.3

Additional details of the sewer lining projects and any other I/I reduction activities is requested.

Wagle, Mandeera

From: Daniel Vicari <dan@garysan.com>
Sent: Monday, November 19, 2018 3:07 PM

To: Wagle, Mandeera; Martel, Christopher; Mercer, Gary

Subject: Fwd: CSO Operational Plan

FYI

Begin forwarded message:

From: "Hodaj, Andi" < hodaj.andi@epa.gov>
Date: November 19, 2018 at 2:31:59 PM CST

To: Daniel Vicari <dan@garysan.com>, Willette Lee <willette@garysan.com>

Cc: "Koller, Mark" <koller.mark@epa.gov>, "Heger, Michelle" <heger.michelle@epa.gov>, "Wendholt,

Kara" <KWendhol@idem.IN.gov>, "TENNIS, DAVE" <<u>DTENNIS@idem.IN.gov</u>>

Subject: CSO Operational Plan

Dear Mr. Vicari,

Thank you for responding to EPA's comments on the CSO Operational Plan (CSOOP) on August 23, 2018. We look forward to receiving all the updates in the CSOOP update due on January 31, 2019. In addition to the updates that you mention in your response to our comments, EPA suggests that you also include the following, based on the order of comments in your response document "Response to USEPA and IDEM's 7/26/2018 Comments on GSD's CSOOP":

- Comment #3: Section 2.2.3 of the CSOOP states that "9% of the larger diameter pipes that were televised and 10% of the smaller diameter pipes have already failed or are projected to fail within the next five to ten years". That means that you already have televised a certain length of the pipes, both large and small diameter. EPA suggests that you include the length of pipes that were televised already in section 2.2.3 in the update.
- Comment #16: In the updates to section 5.5.6, EPA suggests that you include a short description (or any operational instructions) of the "double weir system" that you mention in your response to the comment. Is that a sequence of two regulators?
- Comment #19: Your response to the comment states that "sewer repairs/lining are prioritized based upon NASSCO/PACP ratings". EPA suggests that you include the priority list that you have compiled based on your last annual cleaning and inspection.

If you have any questions or comments please don't hesitate to call me.

Sincerely,

Andi Hodaj PhD Environmental Engineer Water Enforcement and Compliance Assurance U.S. EPA Region 5 77 W Jackson Blvd (WC-15J) Chicago, Illinois 60604

Phone: 312-353-4645